

Tomasz Tokarski

List of Publications by Year in descending order

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83
papers

1,090
citations

471509

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501196

28
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docs citations

83
times ranked

1268
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of TiC/Fe in situ composite layer formation on surface of Fe-based castings. <i>Materials Letters</i> , 2022, 309, 131399.	2.6	3
2	Microstructure Evolution in Inconel 718 Produced by Powder Bed Fusion Additive Manufacturing. <i>Journal of Manufacturing and Materials Processing</i> , 2022, 6, 20.	2.2	3
3	Dry sliding, slurry abrasion and cavitation erosion of composite layers reinforced by TiC fabricated in situ in cast steel and gray cast iron. <i>Journal of Materials Processing Technology</i> , 2022, 308, 117688.	6.3	8
4	Tetragonality mapping of martensite in a high-carbon steel by EBSD. <i>Materials Characterization</i> , 2021, 175, 111040.	4.4	13
5	Crystallographic analysis of the lattice metric (CALM) from single electron backscatter diffraction or transmission Kikuchi diffraction patterns. <i>Journal of Applied Crystallography</i> , 2021, 54, 1012-1022.	4.5	10
6	Kikuchi pattern simulations of backscattered and transmitted electrons. <i>Journal of Microscopy</i> , 2021, 284, 157-184.	1.8	10
7	Transmission Kikuchi diffraction: The impact of the signal-to-noise ratio. <i>Ultramicroscopy</i> , 2021, 230, 113372.	1.9	5
8	Batch Reactor vs. Microreactor System for Efficient AuNP Deposition on Activated Carbon Fibers. <i>Materials</i> , 2021, 14, 6598.	2.9	1
9	Correlative Analysis of the Dimensional Properties of Bipyrarnidal Titania Nanoparticles by Complementing Electron Microscopy with Other Methods. <i>Nanomaterials</i> , 2021, 11, 3359.	4.1	6
10	Failure of the tail rotor of the Mi-24 helicopter as a result of a long-term impact of spatial resonance coupling. <i>Journal of KONBiN</i> , 2021, 51, 11-24.	0.4	2
11	Eco Friendly Synthesis of Carbon Dot by Hydrothermal Method for Metal Ions Salt Identification. <i>Materials</i> , 2021, 14, 7604.	2.9	17
12	2H and 4H silver colloidal suspension synthesis, as a new potential drug carrier. <i>Chemical Engineering Journal</i> , 2020, 382, 122922.	12.7	6
13	Refined Calibration Model for Improving the Orientation Precision of Electron Backscatter Diffraction Maps. <i>Materials</i> , 2020, 13, 2816.	2.9	17
14	Approximant-based orientation determination of quasicrystals using electron backscatter diffraction. <i>Ultramicroscopy</i> , 2020, 218, 113093.	1.9	5
15	Strain Localization During Compressive Deformation of Mg-Gd Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 3742-3748.	2.2	8
16	EBSD orientation analysis based on experimental Kikuchi reference patterns. <i>Acta Materialia</i> , 2020, 188, 376-385.	7.9	29
17	Manual measurement of angles in backscattered and transmission Kikuchi diffraction patterns. <i>Journal of Applied Crystallography</i> , 2020, 53, 435-443.	4.5	3
18	Temperature dependence of twinning stress in Ni _{49.5} Mn _{38.4} Sn _{12.2} single crystal. <i>Journal of Applied Physics</i> , 2019, 126, 145107.	2.5	2

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19	Monitoring wear of gear wheel of helicopter transmission using the FAM-C and FDM-A methods. <i>Procedia Structural Integrity</i> , 2019, 16, 184-191.	0.8	6
20	The Effect of Fe Addition on Fragmentation Phenomena, Macrostructure, Microstructure, and Hardness of TiC-Fe Local Reinforcements Fabricated In Situ in Steel Casting. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 975-986.	2.2	14
21	Local composite reinforcements of TiC/FeMn type obtained in situ in steel castings. <i>Archives of Civil and Mechanical Engineering</i> , 2019, 19, 997-1005.	3.8	14
22	2019, 171, 107703.	7.0	37
23	Continuous, monodisperse silver nanoparticles synthesis using microdroplets as a reactor. <i>Journal of Flow Chemistry</i> , 2019, 9, 1-7.	1.9	22
24	High-spatial resolution dating of monazite and zircon reveals the timing of subduction exhumation of the Vaimok Lens in the Sveve Nappe Complex (Scandinavian Caledonides). <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	36
25	Orthogonal shear process in Ni-Mn-Sn single crystal. <i>International Journal of Plasticity</i> , 2019, 114, 63-71.	8.8	14
26	Superelastic behavior of a metamagnetic Ni-Mn-Sn single crystal. <i>Journal of Materials Science</i> , 2018, 53, 10383-10395.	3.7	14
27	Palladium(II) Chloride Complex Ion Recovery from Aqueous Solutions Using Adsorption on Activated Carbon. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 702-711.	1.9	45
28	TiC Based local composite reinforcement obtained in situ in ductile iron based castings with use of rode preform. <i>Materials Letters</i> , 2018, 222, 192-195.	2.6	15
29	Deposition of Pd nanoparticles on the walls of cathodically hydrogenated TiO ₂ nanotube arrays via galvanic displacement: A novel route to produce exceptionally active and durable composite electrocatalysts for cost-effective hydrogen evolution. <i>Nano Energy</i> , 2018, 47, 527-538.	16.0	32
30	Strain-induced martensite reversion in 18Cr-8Ni steel transmission Kikuchi diffraction study. <i>Materials Science and Technology</i> , 2018, 34, 580-583.	1.6	5
31	Novel and effective synthesis protocol of AgNPs functionalized using L-cysteine as a potential drug carrier. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2018, 391, 123-130.	3.0	19
32	Ni-Cr-Ta-Al-C complex phase alloy Design, microstructure and properties. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 711, 99-108.	5.6	2
33	Martensite stabilisation in single crystalline Ni-Mn-Ga and Ni-Mn-Sn magnetic shape memory alloys. <i>Materials Letters</i> , 2018, 230, 266-269.	2.6	13
34	Reactive casting coatings for obtaining in situ composite layers based on Fe alloys. <i>Surface and Coatings Technology</i> , 2018, 350, 346-358.	4.8	8
35	Mapping of local lattice parameter ratios by projective Kikuchi pattern matching. <i>Physical Review Materials</i> , 2018, 2, .	2.4	15
36	The effect of temperature on the evolution of eutectic carbides and M ₇ C ₃ and M ₂₃ C ₆ carbides reaction in the rapidly solidified Fe-Cr-C alloy. <i>Journal of Alloys and Compounds</i> , 2017, 698, 673-684.	5.5	104

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37	Branched needle microstructure in Ni-Mn-Ga 10M martensite: EBSD study. <i>Acta Materialia</i> , 2017, 128, 113-119.	7.9	14
38	Wear Resistance of TiC Reinforced Cast Steel Matrix Composite. <i>Archives of Foundry Engineering</i> , 2017, 17, 143-146.	0.4	4
39	The γ -Ni ₃ (Al,Ta) phase triggered strengthening of the Ni-Ta-Al-Cr-C coating layer, deposited on austenitic stainless steel. <i>Materials Characterization</i> , 2017, 129, 367-377.	4.4	10
40	Micromechanical behaviour of a two-phase Ti alloy studied using grazing incidence diffraction and a self-consistent model. <i>Acta Materialia</i> , 2017, 136, 402-414.	7.9	9
41	The Investigation of Strain-Induced Martensite Reverse Transformation in AISI 304 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2017, 48, 4999-5008.	2.2	52
42	Experimental study of phase transformation in non-equilibrium hypoeutectic alloy from the Fe-Cr-Ni-Mo-C system. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 127, 449-455.	3.6	4
43	The Analysis of Foundry Engineering of Copper Alloys Based on the Research of a Metallurgist Settlement in SzczepiÅo. <i>Archives of Foundry Engineering</i> , 2017, 17, 45-50.	0.4	4
44	The Analysis of the Water-Expanded Rock Bolts Ruptures During Pressure Test. <i>Archives of Mining Sciences</i> , 2017, 62, 423-430.	0.6	1
45	Mechanical Properties of Solid-State Recycled 4xxx Aluminum Alloy Chips. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3252-3259.	2.5	13
46	Locally Reinforcement TiC-Fe Type Produced in Situ in Castings. <i>Archives of Foundry Engineering</i> , 2016, 16, 77-82.	0.4	3
47	Experimental and Thermodynamic Study of Selected in-Situ Composites from the Fe-Cr-Ni-Mo-C System. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 1241-1247.	0.6	3
48	Computer Simulation of the Formation of Non-Metallic Precipitates During a Continuous Casting of Steel. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 335-340.	0.6	0
49	Hardness and Wear Resistance of TiC-Fe-Cr Locally Reinforcement Produced in Cast Steel. <i>Archives of Foundry Engineering</i> , 2016, 16, 89-94.	0.4	8
50	Comparative Analysis of Properties and Microstructure of the Plastically Deformed Alloy Inconel®718, Manufactured by Plastic Working and Direct Metal Laser Sintering. <i>Archives of Metallurgy and Materials</i> , 2016, 61, 143-148.	0.6	8
51	High quality transmission Kikuchi diffraction analysis of deformed alloys - Case study. <i>Materials Characterization</i> , 2016, 121, 231-236.	4.4	15
52	Crystallography and Morphology of Chromium Rich Eutectic Carbides in an As-Cast Fe-Cr-C Alloy Crystallized in Non-Equilibrium Conditions. <i>Acta Physica Polonica A</i> , 2016, 130, 1007-1009.	0.5	4
53	X-ray Diffraction and EBSD Study of Al-Ti-Co-Ni-Fe High-Entropy Alloy. <i>Acta Physica Polonica A</i> , 2016, 130, 991-992.	0.5	2
54	Microstructural Characteristic of Hypereutectoid Iron Alloys Melted in ArcMelter Furnace. <i>Acta Physica Polonica A</i> , 2016, 130, 939-941.	0.5	0

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55	Thermo-Mechanical Processing of Rapidly Solidified 5083 Aluminium Alloy - Structure and Mechanical Properties. Archives of Metallurgy and Materials, 2015, 60, 177-180.	0.6	6
56	Electrowinning Of Tellurium From Acidic Solutions. Archives of Metallurgy and Materials, 2015, 60, 591-596.	0.6	13
57	Effect Of Heat Treatment On The Corrosion Resistance Of Aluminized Steel Strips. Archives of Metallurgy and Materials, 2015, 60, 1825-1832.	0.6	6
58	Photoelectrochemistry of n-type antimony sulfoiodide nanowires. Nanotechnology, 2015, 26, 105710.	2.6	28
59	Effect of SPS parameters on densification and properties of steel matrix composites. Advanced Powder Technology, 2015, 26, 1152-1161.	4.1	43
60	Microstructure and texture characteristics of the metastable Fe ²¹ Mn ³ Si ³ Al alloy after cold deformation. Journal of Alloys and Compounds, 2015, 643, S39-S45.	5.5	14
61	Lead molybdate – a promising material for optoelectronics and photocatalysis. Journal of Materials Chemistry C, 2015, 3, 2614-2623.	5.5	26
62	Cast aluminium matrix composites modified with using FSP process – Changing of the structure and mechanical properties. Composite Structures, 2015, 133, 959-967.	5.8	42
63	Magnetic field effect on the electrodeposition of ZnSe. Magnetohydrodynamics, 2015, 51, 345-352.	0.3	5
64	Effect of Compaction Pressure Applied to TiC Reactants on the Microstructure and Properties of Composite Zones Produced <i>In Situ</i> in Steel Castings. Materials Science Forum, 2014, 782, 527-532.	0.3	7
65	Electrodeposition of Co-Pd alloys from ammonia solutions and their catalytic activity for hydrogen evolution reaction. Journal of Applied Electrochemistry, 2014, 44, 97-103.	2.9	35
66	Bi _x La _{1-x} VO ₄ solid solutions: tuning of electronic properties via stoichiometry modifications. Nanoscale, 2014, 6, 2244-2254.	5.6	22
67	Sintered Fe-Ni-Cu-Sn-C Alloys Made of Ball-Milled Powders. Archives of Metallurgy and Materials, 2014, 59, 947-950.	0.6	6
68	The Use of Colloidal Solutions of Zinc Oxide Nanoparticles in Investment Casting Technology/ Wykorzystanie Koloidalnych Roztwor ³ w Nanoczastek Tlenku Cynku W Technologii Wytapianych Modeli. Archives of Metallurgy and Materials, 2014, 59, 1355-1359.	0.6	0
69	High-cycle fatigue bending strength of rapidly solidified and plastic consolidated RS442 aluminium alloy. Journal of Materials Science, 2013, 48, 4796-4800.	3.7	2
70	Novel, Microwave Assisted Route of Synthesis of Binary Oxide Semiconducting Phases – PbMoO ₄ And PbWO ₄ / Nowa Metoda Syntezy Binarnych Faz Tlenkowych O Charakterze P ³ A, przewodnikowym W Polu Mikrofalowym – PbMoO ₄ I PbWO ₄ . Archives of Metallurgy and Materials, 2013, 58, 217-222.	0.6	18
71	Kinetic Study of The Photoelectrochemical Gold Recovery from Diluted Chloride Solutions. Archives of Metallurgy and Materials, 2013, 58, 709-716.	0.6	7
72	Synthesis of ZnO Nanoparticles by Thermal Decomposition of Basic Zinc Carbonate. Archives of Metallurgy and Materials, 2013, 58, 489-491.	0.6	21

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73	Premature Cracking of Dies for Aluminium Alloy Die-Casting. Archives of Metallurgy and Materials, 2013, 58, 1275-1279.	0.6	2
74	The Effect of Reciprocating Extrusion (Cec) on the Consolidated Silver Powders Microstructure / Wpływ Dwustronnego Wyciskania (Cws) Na Mikrostrukturę Konsolidowanych Proszków Srebra. Archives of Metallurgy and Materials, 2013, 58, 73-75.	0.6	4
75	Composite Zones Produced in Iron Castings by In-Situ Synthesis of Tic Carbides. Archives of Metallurgy and Materials, 2013, 58, 465-471.	0.6	7
76	Composite Zones Obtained by in situ Synthesis in Steel Castings. Archives of Metallurgy and Materials, 2013, 58, 769-773.	0.6	9
77	Microstructure and Plasticity of Hot Deformed 5083 Aluminum Alloy Produced by Rapid Solidification and Hot Extrusion / Badania Mikrostruktury i Plastyczności Odkształcanego Na Gorąco Szybko-Krystalizowanego i Wyciskanego Stopu Aluminium 5083. Archives of Metallurgy and Materials, 2012, 57, 1253-1259.	0.6	9
78	The Effect of Plastic Consolidation Parameters on the Microstructure and Mechanical Properties of Various Aluminium Powders. Materials Science Forum, 2011, 674, 141-146.	0.3	1
79	Characterization of AM60 Magnesium Alloy Prepared by Rapid Solidification and Plastic Consolidation Technique. Materials Science Forum, 2010, 667-669, 997-1002.	0.3	0
80	Is there a critical resolved shear stress for twinning in face-centred cubic crystals?. Philosophical Magazine, 2004, 84, 481-502.	1.6	30
81	Effect of Rapid Solidification on the Structure and Mechanical Properties of AZ91 Magnesium Alloy. Solid State Phenomena, 0, 186, 120-123.	0.3	3
82	The Effect of Heat Treatment on Static and Dynamic Mechanical Properties of Rapidly Solidified and Plastically Consolidated RS442 Aluminium Alloy. Key Engineering Materials, 0, 641, 17-23.	0.4	0
83	Light Metals Chips Recycling by Plastic Consolidation. Key Engineering Materials, 0, 641, 24-29.	0.4	7