

# Tomasz Dudziak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9049049/publications.pdf>

Version: 2024-02-01

42  
papers

408  
citations

840585

11  
h-index

839398

18  
g-index

42  
all docs

42  
docs citations

42  
times ranked

352  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scale mass gain, morphology and phase composition of air and steam oxidized electron beam melted and cast Ti-48Al-2Nb-0.7Cr-0.3Si alloys. <i>Intermetallics</i> , 2022, 145, 107553.	1.8	6
2	Characterization of the as-cast microstructure and selected properties of the X-40 Co-based superalloy produced via lost-wax casting. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, .	1.9	4
3	Effect of ceramic-based coatings deposited on low-alloyed steel T/P22 10H2M exposed at high temperature. <i>International Journal of Applied Ceramic Technology</i> , 2021, 18, 913-927.	1.1	0
4	Paper: Effect of aging process on steam oxidation behaviour of austenitic steels Super 304H and HR3C. <i>International Journal of Pressure Vessels and Piping</i> , 2021, 191, 104344.	1.2	7
5	Sulfidation of Ceramic-Based Coatings Deposited on Low-Alloyed Steel 16Mo3 Exposed at High Temperature. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8538.	1.2	1
6	Effects of Long-Term Ageing at High Temperatures on Oxide Scale Development and Evolution of Austenitic Steels Microstructure. <i>Steel Research International</i> , 2020, 91, 1900595.	1.0	6
7	Sulphidation of Low-Alloyed Steels Used in Power Industry. <i>Oxidation of Metals</i> , 2019, 92, 379-399.	1.0	7
8	Protective coatings for high-temperature steam oxidation in coal-fired power plants. <i>Surface and Coatings Technology</i> , 2019, 369, 127-141.	2.2	8
9	Internal Oxidation Prediction by Cellular Automata Approach in Energy Materials at High Temperatures. <i>Advanced Engineering Materials</i> , 2019, 21, 1801142.	1.6	3
10	Steam Oxidation Behavior of Highly Alloyed Steels in Pure Water Conditions at High Temperatures. <i>Corrosion</i> , 2019, 75, 349-357.	0.5	1
11	Internal Oxidation Depth Penetration in Ni-Based Alloys at High Temperatures. <i>Corrosion</i> , 2019, 75, 192-202.	0.5	0
12	Steam oxidation resistance and performance of newly developed coatings for Haynes® 282® Ni-based alloy. <i>Corrosion Science</i> , 2018, 138, 326-339.	3.0	7
13	Neural network modelling studies of steam oxidised kinetic behaviour of advanced steels and Ni-based alloys at 800°C for 3000h. <i>Corrosion Science</i> , 2018, 133, 94-111.	3.0	12
14	High temperature coatings from post processing Fe-based chips and Ni-based alloys as a solution for critical raw materials. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 329, 012010.	0.3	5
15	Steam Oxidation Resistance of Advanced Steels and Ni-Based Alloys at 700°C for 1000h. <i>Oxidation of Metals</i> , 2018, 89, 755-779.	1.0	9
16	Microstructure and Mechanical Properties of Inconel 740H after Long-Term Service. <i>Materials</i> , 2018, 11, 2130.	1.3	20
17	Multilayered Coatings for High-Temperature Steam Oxidation: TGA Studies up to 1000°C. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4317-4335.	1.2	7
18	Impact specimen geometry on T23 and TP347HFG steels behaviour during steam oxidation at harsh conditions. <i>Corrosion Engineering Science and Technology</i> , 2017, 52, 46-53.	0.7	3

#	ARTICLE	IF	CITATIONS
19	Steam Oxidation Behavior of Advanced Steels and Ni-Based Alloys at 800°C. Journal of Materials Engineering and Performance, 2017, 26, 1044-1056.	1.2	16
20	High-Temperature Performance of Ferritic Steels in Fireside Corrosion Regimes: Temperature and Deposits. Journal of Materials Engineering and Performance, 2017, 26, 84-93.	1.2	10
21	Phase Investigations Under Steam Oxidation Process at 800°C for 1000h of Advanced Steels and Ni-Based Alloys. Oxidation of Metals, 2017, 87, 139-158.	1.0	34
22	The Influence of Fabrication Process on the Initial Stages of Steam Oxidation Performed on Haynes® 282 Alloy at 760°C. Journal of Materials Engineering and Performance, 2017, 26, 239-249.	1.2	4
23	Chlorine Corrosion Degradation of Low Alloyed Ferritic Steels in Temperature Range 450-550°C. Oxidation of Metals, 2016, 85, 647-664.	1.0	4
24	Analysis of High Temperature Steam Oxidation of Superheater Steels Used in Coal Fired Boilers. Oxidation of Metals, 2016, 85, 171-187.	1.0	20
25	Metal Loss of Steam-Oxidized Alloys after Exposures at 675°C and 725°C for 500 Hours. High Temperature Materials and Processes, 2015, 34, 783-798.	0.6	7
26	Air oxidation behaviour of standard PVD and novel HIPIMS coatings at 750°C for 1000 h. Corrosion Engineering Science and Technology, 2015, 50, 118-127.	0.7	0
27	Long exposure test in air, conducted on super-lattice coatings at 850°C for 4,000 hours. Anti-Corrosion Methods and Materials, 2015, 62, 394-399.	0.6	0
28	Fireside corrosion degradation of 15Mo3, T22, T23 & T91 in simulated coal-biomass co-fired environment. Materials and Corrosion - Werkstoffe Und Korrosion, 2015, 66, 839-850.	0.8	15
29	Steam oxidation of TP347HFG, super 304H and HR3C – analysis of significance of steam flowrate and specimen surface finish. Corrosion Engineering Science and Technology, 2015, 50, 272-282.	0.7	23
30	Enhanced sulphidation/oxidation resistance of Ti-45Al-8Nb alloy by nanostructured Cr-Al-Cr-Ni coatings at 750°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 45-60.	0.8	2
31	Fireside corrosion degradation of ferritic alloys at 600°C in oxy-fired conditions. Corrosion Science, 2014, 79, 184-191.	3.0	21
32	Enhanced sulphidation/oxidation resistance of Ti-45Al-8Nb alloy by multilayered coatings at 850°C for up to 675 h. Corrosion Engineering Science and Technology, 2014, 49, 590-602.	0.7	1
33	Fireside Corrosion Behavior of HVOF and Plasma-Sprayed Coatings in Advanced Coal/Biomass Co-Fired Power Plants. Journal of Thermal Spray Technology, 2013, 22, 797-807.	1.6	50
34	Effect of Steam Flow Rate and Sample Orientation on Steam Oxidation of Ferritic and Austenitic Steels at 650 and 700°C. Oxidation of Metals, 2013, 79, 473-483.	1.0	33
35	High temperature air oxidation resistance of TiAlCr-Y coated Ti45Al8Nb between 750 °C – 950 °C. Open Engineering, 2013, 3, .	0.7	4
36	Long-term oxidation of newly developed HIPIMS and PVD coatings with neural network prediction modelling. Corrosion Science, 2013, 69, 322-337.	3.0	17

#	ARTICLE	IF	CITATIONS
37	Steam oxidation behaviour of plasma nitrided Fe-based alloys. <i>Anti-Corrosion Methods and Materials</i> , 2013, 60, 288-294.	0.6	0
38	Characterisation of oxide scales developed on high temperature resistant alloys in pure steam environments. <i>Materials at High Temperatures</i> , 2012, 29, 210-218.	0.5	9
39	High Temperature Oxidation Resistance of CrAlYN-Coated Ti45Al8Nb. <i>Oxidation of Metals</i> , 2011, 75, 359-376.	1.0	12
40	Defects of SiC nanowires studied by STM and STS. <i>Applied Surface Science</i> , 2010, 256, 4771-4776.	3.1	7
41	Sulphidation/oxidation behaviour of TiAlCr and Al2Au coated Ti45Al8Nb alloy at 750Å°C. <i>Corrosion Science</i> , 2009, 51, 1189-1196.	3.0	11
42	Characterisation of the austenitic steels Super 304H and HR3C after air and steam oxidation. <i>Materials at High Temperatures</i> , 0, , 1-14.	0.5	2