

# Harald Rojacz

## List of Publications by Year in descending order

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34  
papers

412  
citations

759233

12  
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794594

19  
g-index

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34  
docs citations

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times ranked

282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimentally validated atomistic simulation of the effect of relevant grinding parameters on work piece topography, internal stresses, and microstructure. <i>Friction</i> , 2022, 10, 608-629.	6.4	9
2	Impact-abrasive wear of martensitic steels and complex iron-based hardfacing alloys. <i>Wear</i> , 2022, 492-493, 204183.	3.1	10
3	Tribocorrosion performance of Fe-base and Ni-base wear resistant coatings in CO <sub>2</sub> anoxic environments. <i>Corrosion Science</i> , 2022, 196, 110035.	6.6	4
4	High Temperature Erosion-Corrosion of Wear Protection Materials. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	3
5	Conductive and Edge Retaining Embedding Compounds: Influence of Graphite Content in Compounds on Specimen's SEM and EBSD Performance. <i>Praktische Metallographie/Practical Metallography</i> , 2021, 58, 236-263.	0.3	8
6	High-temperature abrasion resistance and wear mechanisms of chilled high-chromium cast irons. <i>IOP Conference Series: Materials Science and Engineering</i> , 2021, 1140, 012027.	0.6	1
7	Scratching aluminium alloys – Modelling and experimental assessment of damage as function of the strain rate. <i>Wear</i> , 2021, 476, 203670.	3.1	13
8	Fine grained titanium carbonitride reinforcements for laser deposition processes of 316L boost tribocorrosion resistance in marine environments. <i>Materials and Design</i> , 2021, 207, 109847.	7.0	10
9	Local mechanical and frictional properties of Ag/MoS <sub>2</sub> -doped self-lubricating Ni-based laser claddings and resulting high temperature vacuum performance. <i>Materials and Design</i> , 2020, 186, 108296.	7.0	33
10	The tribology of Ag/MoS <sub>2</sub> -based self-lubricating laser claddings for high temperature forming of aluminium alloys. <i>Wear</i> , 2020, 442-443, 203110.	3.1	21
11	Tribological Interaction of Manganese Phosphate Coatings with Grease and Solid Lubricant Particles. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	6
12	Influence of velocity on high-temperature fundamental abrasive contact: A numerical and experimental approach. <i>Wear</i> , 2019, 426-427, 370-377.	3.1	21
13	Two and three-body abrasion resistance of rubbers at elevated temperatures. <i>Wear</i> , 2018, 414-415, 174-181.	3.1	13
14	Alloying and strain hardening effects in abrasive contacts on iron based alloys. <i>Wear</i> , 2018, 410-411, 173-180.	3.1	15
15	Scale adhesion, scratch and fracture behaviour of different oxides formed on iron based alloys at 700 Å°C. <i>Wear</i> , 2017, 380-381, 126-136.	3.1	6
16	High temperature abrasion resistance of differently welded structural steels. <i>Tribology International</i> , 2017, 113, 487-499.	5.9	18
17	High Temperature Corrosive Environment in a Sintering Plant for Pig Iron Production and Its Effect on Different Steel Grades. <i>Steel Research International</i> , 2017, 88, 1600431.	1.8	3
18	Influence of Momentum and Energy on Materials: An Experimental and Molecular Dynamics Approach for Impact Phenomena. <i>Steel Research International</i> , 2017, 88, 1600445.	1.8	1

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19	Determination of Mo-Rich Laves-Phase in Weld Metals of a Creep-Resistant 9% Cr-Steel Using Light Optical Microscopy. <i>Metallography, Microstructure, and Analysis</i> , 2017, 6, 352-359.	1.0	2
20	Study of wear mechanisms at high temperature scratch testing. <i>Wear</i> , 2017, 388-389, 112-118.	3.1	32
21	Welding Parameters and their Influence on the Abrasion Resistance of Structural Steels at Elevated Temperatures. <i>Key Engineering Materials</i> , 2016, 721, 461-466.	0.4	3
22	Microstructural changes and strain hardening effects in abrasive contacts at different relative velocities and temperatures. <i>Materials Characterization</i> , 2016, 118, 370-381.	4.4	26
23	Transient Thermal Stress Analysis of Steel Slag Pots: Impact of the Solidifying Slag Layer on Heat Transfer and Wear. <i>Steel Research International</i> , 2016, 87, 720-732.	1.8	3
24	Thermal effects on wear and material degradation of slag pots operating in steel production. <i>Wear</i> , 2016, 350-351, 35-45.	3.1	7
25	Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. <i>Tribology Letters</i> , 2015, 57, 1.	2.6	6
26	The role of temperature and velocity on deformation and wear mechanisms in fundamental abrasive contacts up to 800°C. <i>WIT Transactions on Engineering Sciences</i> , 2015, , .	0.0	5
27	High temperature oxidation studies of binary and ternary iron based alloys at 700°C. , 2015, , .		1
28	High temperature corrosion of boiler steels in hydrochloric atmosphere under oil shale ashes. <i>Corrosion Science</i> , 2014, 82, 36-44.	6.6	13
29	Processing and wear of cast MMCs with cemented carbide scrap. <i>Journal of Materials Processing Technology</i> , 2014, 214, 1285-1292.	6.3	12
30	Deformation and strain hardening of different steels in impact dominated systems. <i>Materials Characterization</i> , 2014, 90, 151-163.	4.4	13
31	Wear reducing effects and temperature dependence of tribolayer formation in harsh environment. <i>Tribology International</i> , 2013, 65, 190-199.	5.9	60
32	High temperature single impact studies on material deformation and fracture behaviour of metal matrix composites and steels. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 562, 39-45.	5.6	14
33	High temperature corrosion studies of cermet particle reinforced NiCrBSi hardfacings. <i>Surface and Coatings Technology</i> , 2013, 222, 90-96.	4.8	19
34	High Temperature Cyclic Impact/Abrasion Testing of Boiler Steels. <i>Key Engineering Materials</i> , 0, 604, 289-292.	0.4	1