

# Harald Rojacz

## List of Publications by Year in descending order

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Version: 2024-02-01

34  
papers

412  
citations

759233

12  
h-index

794594

19  
g-index

34  
all docs

34  
docs citations

34  
times ranked

282  
citing authors

#	ARTICLE	IF	CITATIONS
1	Wear reducing effects and temperature dependence of tribolayer formation in harsh environment. Tribology International, 2013, 65, 190-199.	5.9	60
2	Local mechanical and frictional properties of Ag/MoS <sub>2</sub> -doped self-lubricating Ni-based laser claddings and resulting high temperature vacuum performance. Materials and Design, 2020, 186, 108296.	7.0	33
3	Study of wear mechanisms at high temperature scratch testing. Wear, 2017, 388-389, 112-118.	3.1	32
4	Microstructural changes and strain hardening effects in abrasive contacts at different relative velocities and temperatures. Materials Characterization, 2016, 118, 370-381.	4.4	26
5	Influence of velocity on high-temperature fundamental abrasive contact: A numerical and experimental approach. Wear, 2019, 426-427, 370-377.	3.1	21
6	The tribology of Ag/MoS <sub>2</sub> -based self-lubricating laser claddings for high temperature forming of aluminium alloys. Wear, 2020, 442-443, 203110.	3.1	21
7	High temperature corrosion studies of cermet particle reinforced NiCrBSi hardfacings. Surface and Coatings Technology, 2013, 222, 90-96.	4.8	19
8	High temperature abrasion resistance of differently welded structural steels. Tribology International, 2017, 113, 487-499.	5.9	18
9	Alloying and strain hardening effects in abrasive contacts on iron based alloys. Wear, 2018, 410-411, 173-180.	3.1	15
10	High temperature single impact studies on material deformation and fracture behaviour of metal matrix composites and steels. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2013, 562, 39-45.	5.6	14
11	High temperature corrosion of boiler steels in hydrochloric atmosphere under oil shale ashes. Corrosion Science, 2014, 82, 36-44.	6.6	13
12	Deformation and strain hardening of different steels in impact dominated systems. Materials Characterization, 2014, 90, 151-163.	4.4	13
13	Two and three-body abrasion resistance of rubbers at elevated temperatures. Wear, 2018, 414-415, 174-181.	3.1	13
14	Scratching aluminium alloys – Modelling and experimental assessment of damage as function of the strain rate. Wear, 2021, 476, 203670.	3.1	13
15	Processing and wear of cast MMCs with cemented carbide scrap. Journal of Materials Processing Technology, 2014, 214, 1285-1292.	6.3	12
16	Fine grained titanium carbonitride reinforcements for laser deposition processes of 316L boost tribocorrosion resistance in marine environments. Materials and Design, 2021, 207, 109847.	7.0	10
17	Impact-abrasive wear of martensitic steels and complex iron-based hardfacing alloys. Wear, 2022, 492-493, 204183.	3.1	10
18	Experimentally validated atomistic simulation of the effect of relevant grinding parameters on work piece topography, internal stresses, and microstructure. Friction, 2022, 10, 608-629.	6.4	9

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	Effect of Multiple Impacts on the Deformation of Wear-Resistant Steels. <i>Tribology Letters</i> , 2015, 57, 1.	2.6	6
22	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
23	Tribological Interaction of Manganese Phosphate Coatings with Grease and Solid Lubricant Particles. <i>Tribology Letters</i> , 2020, 68, 1.	2.6	6
24	The role of temperature and velocity on deformation and wear mechanisms in fundamental abrasive contacts up to 800Å°C. <i>WIT Transactions on Engineering Sciences</i> , 2015, , .	0.0	5
25	Tribocorrosion performance of Fe-base and Ni-base wear resistant coatings in CO2 anoxic environments. <i>Corrosion Science</i> , 2022, 196, 110035.	6.6	4
26	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
27	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
28	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
29	High Temperature Erosion-Corrosion of Wear Protection Materials. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	3
30	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
31	High Temperature Cyclic Impact/Abrasion Testing of Boiler Steels. <i>Key Engineering Materials</i> , 0, 604, 289-292.	0.4	1
32	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
33	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
34	High temperature oxidation studies of binary and ternary iron based alloys at 700Å°C. , 2015, , .		1