

# Christer Persson

## List of Publications by Year in descending order

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43  
papers

1,328  
citations

430874

18  
h-index

345221

36  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Precipitation of $\gamma'$ during cooling of nickel-base superalloy Haynes 282. Philosophical Magazine Letters, 2021, 101, 30-39.	1.2	6
2	Effects of Temperature on the Evolution of Yield Surface and Stress Asymmetry in A356-T7 Cast Aluminium Alloy. Materials, 2021, 14, 7898.	2.9	5
3	Damage evolution around white etching layer during uniaxial loading. Fatigue and Fracture of Engineering Materials and Structures, 2020, 43, 201-208.	3.4	5
4	Microstructure-dependent deformation behaviour of a low $\gamma'$ volume fraction Ni-base superalloy studied by in-situ neutron diffraction. Acta Materialia, 2020, 183, 182-195.	7.9	31
5	Effect of Strain Rate on the Deformation Behaviour of A356-T7 Cast Aluminium Alloys at Elevated Temperatures. Metals, 2020, 10, 1239.	2.3	5
6	Effect of Temperature on Deformation and Fatigue Behaviour of A356-T7 Cast Aluminium Alloys Used in High Specific Power IC Engine Cylinder Heads. Materials, 2020, 13, 1202.	2.9	10
7	Effects of Dwell Time on the Deformation and Fatigue Behaviour of A356-T7 Cast Aluminium Alloys Used in High Specific Power IC Engine Cylinder Heads. Materials, 2020, 13, 2727.	2.9	5
8	Deformation and Fatigue Behaviour of A356-T7 Cast Aluminium Alloys Used in High Specific Power IC Engines. Materials, 2019, 12, 3033.	2.9	7
9	Effect of microstructure on dynamic shear localisation in Alloy 718. Mechanics of Materials, 2017, 109, 88-100.	3.2	23
10	Influence of heat treatment on the microstructure and tensile properties of Ni-base superalloy Haynes 282. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 679, 520-530.	5.6	101
11	Alloy design for intrinsically ductile refractory high-entropy alloys. Journal of Applied Physics, 2016, 120, .	2.5	271
12	Microstructural examination of shear localisation during high strain rate deformation of Alloy 718. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 662, 363-372.	5.6	32
13	Experimental observations and modelling of cyclic and relaxation behaviour of the Ni-based superalloy Haynes 282. International Journal of Fatigue, 2016, 87, 180-191.	5.7	11
14	3D characterisation of RCF crack networks. MATEC Web of Conferences, 2014, 12, 06001.	0.2	0
15	Interaction between cracks and microstructure in three dimensions for rolling contact fatigue in railway rails. Fatigue and Fracture of Engineering Materials and Structures, 2014, 37, 280-289.	3.4	10
16	Analysis of wear debris in rolling contact fatigue cracks of pearlitic railway wheels. Wear, 2014, 314, 51-56.	3.1	14
17	Rapid thermomechanical tempering of iron-carbon martensite. Materials Science and Technology, 2014, 30, 1832-1834.	1.6	1
18	Dynamic strain aging in Haynes 282 superalloy. MATEC Web of Conferences, 2014, 14, 16002.	0.2	9

#	ARTICLE	IF	CITATIONS
19	SEM study of overload effects during fatigue crack growth using an image analysing technique and potential drop measures. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2010, 33, 105-115.	3.4	3
20	Thermo-mechanical fatigue crack propagation experiments in Inconel 718. <i>International Journal of Fatigue</i> , 2009, 31, 1318-1326.	5.7	26
21	In situ scanning electron microscopy study of fatigue crack propagation. <i>Strength of Materials</i> , 2008, 40, 146-149.	0.5	1
22	In-situ ESEM study of thermo-mechanical fatigue crack propagation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008, 496, 200-208.	5.6	14
23	Computationally efficient modelling of short fatigue crack growth using dislocation formulations. <i>Engineering Fracture Mechanics</i> , 2008, 75, 3189-3205.	4.3	9
24	Determination of displacements around fatigue cracks using image analysis of <i>in situ</i> scanning electron microscope images. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2008, 31, 1091-1100.	3.4	2
25	On the suitability of carbon nanotube forests as non-stick surfaces for nanomanipulation. <i>Soft Matter</i> , 2008, 4, 392.	2.7	14
26	Atomistic simulations of tensile and bending properties of single-crystal bcc iron nanobeams. <i>Physical Review B</i> , 2007, 76, .	3.2	41
27	High-temperature fatigue crack growth in Inconel 718 subjected to high strain amplitudes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2006, 29, 863-875.	3.4	3
28	Experimental and numerical investigation of crack closure measurements with electrical potential drop technique. <i>International Journal of Fatigue</i> , 2006, 28, 1059-1068.	5.7	32
29	Long Crack Behavior in a Thermal Barrier Coating Upon Thermal Shock Loading. <i>Journal of Thermal Spray Technology</i> , 2005, 14, 258-263.	3.1	12
30	Fatigue crack propagation in Ti-6Al-4V subjected to high strain amplitudes. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2005, 28, 301-308.	3.4	6
31	Constitutive dependence in finite element modelling of crack closure during fatigue. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2004, 27, 75-87.	3.4	18
32	Experimental and Numerical Life Prediction of Thermally Cycled Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , 2004, 13, 415-424.	3.1	39
33	Fracture Mechanics Analysis of Microcracks in Thermally Cycled Thermal Barrier Coatings. <i>Journal of Thermal Spray Technology</i> , 2004, 13, 377-380.	3.1	7
34	Numerical Modeling of Short Crack Behavior in a Thermal Barrier Coating Upon Thermal Shock Loading. <i>Journal of Thermal Spray Technology</i> , 2004, 13, 554-560.	3.1	12
35	In-situ SEM study of fatigue crack growth behaviour in IN718. <i>International Journal of Fatigue</i> , 2004, 26, 211-219.	5.7	76
36	Control of Thermal Spray Processes by Means of Process Maps and Process Windows. <i>Journal of Thermal Spray Technology</i> , 2003, 12, 44-52.	3.1	31

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37	Influence of particle in-flight characteristics on the microstructure of atmospheric plasma sprayed yttria stabilized ZrO <sub>2</sub> . Surface and Coatings Technology, 2001, 141, 115-127.	4.8	154
38	A numerical method for calculating stress intensity factors for interface cracks in bimetals. Engineering Fracture Mechanics, 2001, 68, 235-246.	4.3	48
39	Investigation of Particle In-Flight Characteristics during Atmospheric Plasma Spraying of Yttria-Stabilized ZrO <sub>2</sub> : Part 1. Experimental. Journal of Thermal Spray Technology, 2001, 10, 301-310.	3.1	22
40	Crack growth in IN718 at high temperature. International Journal of Fatigue, 2001, 23, 817-827.	5.7	47
41	Strain state in semiconductor quantum dots on surfaces: a comparison of electron microscopy and finite element calculations. Surface Science, 1998, 406, 48-56.	1.9	14
42	Modelled and measured residual stresses in plasma sprayed thermal barrier coatings. Surface and Coatings Technology, 1997, 92, 78-86.	4.8	80
43	Observation of strain effects in semiconductor dots depending on cap layer thickness. Applied Physics Letters, 1995, 67, 1438-1440.	3.3	69