

Heinz Werner Häppel

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Fatigue Life Optimized Layer Architecture of Ultrafine-Grained Al-Ti Laminates Under Bending Stresses. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	2
2	Residual Stresses in Ultrafine-Grained Laminated Metal Composites Analyzed by X-Ray Diffraction and the Hole-Drilling Method. <i>Advanced Engineering Materials</i> , 2022, 24, .	1.6	4
3	Formation of Die Soldering and the Influence of Alloying Elements on the Intermetallic Interface. <i>Materials</i> , 2021, 14, 1580.	1.3	8
4	Hierarchical and heterogeneous multiphase metallic nanomaterials and laminates. <i>MRS Bulletin</i> , 2021, 46, 236-243.	1.7	18
5	Ultrafine-Grained Laminated Metal Composites: A New Material Class for Tailoring Cyclically Stressed Components. <i>Advanced Engineering Materials</i> , 2021, 23, 2100070.	1.6	3
6	About the Role of Interfaces on the Fatigue Crack Propagation in Laminated Metallic Composites. <i>Materials</i> , 2021, 14, 2564.	1.3	6
7	Understanding the High Creep Resistance of MRI 230D Magnesium Alloy through Nanoindentation and Atom Probe Tomography. <i>Metals</i> , 2021, 11, 1727.	1.0	1
8	The Role of Interfaces on the Deformation Mechanisms in Bimodal Al Laminates Produced by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2020, 22, 2000145.	1.6	15
9	High Lightweight Potential of Ultrafine-Grained Aluminum/Steel Laminated Metal Composites Produced by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2019, 21, 1800286.	1.6	21
10	Determination of the true projected contact area by in situ indentation testing. <i>Journal of Materials Research</i> , 2019, 34, 2859-2868.	1.2	7
11	Influence of Zn and Sn on the Precipitation Behavior of New Al-Mg-Si Alloys. <i>Materials</i> , 2019, 12, 2547.	1.3	8
12	Nanostructured Metallic Materials and Composites: Processes, Properties and Microstructures. <i>Advanced Engineering Materials</i> , 2019, 21, 1801073.	1.6	0
13	Impact of Mn on the precipitate structure and creep resistance of Ca containing magnesium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 761, 137964.	2.6	8
14	Superior Mechanical Properties of Aluminum-Titanium Laminates in Terms of Local Hardness and Strength. <i>Advanced Engineering Materials</i> , 2019, 21, 1800546.	1.6	8
15	Optimisation of interface formation by shear inclination: Example of aluminium-copper hybrid produced by ECAP with back-pressure. <i>Materials and Design</i> , 2018, 146, 142-151.	3.3	11
16	Optimized layer architecture for an extended fatigue life of ultrafine-grained AA1050/AA5005 laminated metal composites. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 194, 012036.	0.3	11
17	High temperature properties and fatigue strength of novel wrought γ/β Co-base superalloys. <i>Journal of Materials Research</i> , 2017, 32, 4475-4482.	1.2	37
18	Ex and in situ investigations on the role of persistent slip bands and grain boundaries in fatigue crack initiation. <i>Journal of Materials Research</i> , 2017, 32, 4276-4286.	1.2	13

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19	Layer architecture and fatigue life of ultrafine-grained laminated metal composites consisting of different aluminum alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 702, 406-413.	2.6	16
20	Microstructure and Mechanical Properties of Accumulative Roll-Bonded AA1050A/AA5005 Laminated Metal Composites. <i>Metals</i> , 2016, 6, 56.	1.0	32
21	Enhanced fatigue lives in AA1050A/AA5005 laminated metal composites produced by accumulative roll bonding. <i>Acta Materialia</i> , 2016, 120, 150-158.	3.8	55
22	Mechanical properties of copper/bronze laminates: Role of interfaces. <i>Acta Materialia</i> , 2016, 116, 43-52.	3.8	507
23	Tailored heat treated accumulative roll bonded aluminum blanks: failure under bending stresses. <i>Production Engineering</i> , 2016, 10, 399-407.	1.1	1
24	Global and local strain rate sensitivity of bimodal Al-laminates produced by accumulative roll bonding. <i>Acta Materialia</i> , 2016, 103, 643-650.	3.8	35
25	Ultrafine-Grained Austenitic Stainless Steels X4CrNi18-12 and X8CrMnNi19-6-3 Produced by Accumulative Roll Bonding. <i>Metals</i> , 2015, 5, 730-742.	1.0	6
26	Ultrafine-Grained Metals. <i>Metals</i> , 2015, 5, 2393-2396.	1.0	0
27	Secondary Al-Si-Mg High-pressure Die Casting Alloys with Enhanced Ductility. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 1035-1045.	1.1	39
28	Fatigue behavior of calcium containing AZ91 magnesium alloys*. <i>Materialprüfung/Materials Testing</i> , 2015, 57, 126-130.	0.8	0
29	Using Scrap in Recycling Alloys for Structural Applications in the Automotive Industry. , 2014, , 349-353.		1
30	Influence of cross-rolling on the mechanical properties of an accumulative roll bonded aluminum alloy AA6014. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 597, 122-127.	2.6	32
31	Asymmetric accumulative roll bonding of aluminium-titanium composite sheets. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 576, 306-315.	2.6	50
32	Formability of Ultrafine-Grained AA6016 Sheets Processed by Accumulative Roll Bonding. <i>Key Engineering Materials</i> , 2012, 504-506, 575-580.	0.4	3
33	Nanostructured Materials. <i>Advanced Engineering Materials</i> , 2012, 14, 941-941.	1.6	0
34	Confined recrystallization of high-purity aluminium during accumulative roll bonding of aluminium laminates. <i>Acta Materialia</i> , 2012, 60, 4661-4671.	3.8	37
35	Martensitic Transformation in Ultrafine-Grained Stainless Steel AISI 304L Under Monotonic and Cyclic Loading. <i>Metals</i> , 2012, 2, 56-64.	1.0	11
36	Influence of the ECAP Processing Parameters on the Cyclic Deformation Behavior on Ultrafine-Grained Cubic Face Centered Metals. <i>Advanced Engineering Materials</i> , 2012, 14, 842-847.	1.6	1

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37	Design of Graded Materials by Particle Reinforcement During Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2012, 14, 1009-1017.	1.6	12
38	Tailored Heat Treated Accumulative Roll Bonded Aluminum Blanks: Microstructure and Mechanical Behavior. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 3097-3107.	1.1	15
39	On the importance of a connected hard-phase skeleton for the creep resistance of Mg alloys. <i>Acta Materialia</i> , 2012, 60, 2277-2289.	3.8	89
40	The influence of hydrogenated amorphous carbon coatings (a-C:H) on the fatigue life of coated steel specimens. <i>International Journal of Fatigue</i> , 2012, 37, 1-7.	2.8	7
41	Particle Based Alloying by Accumulative Roll Bonding in the System Al-Cu. <i>Metals</i> , 2011, 1, 65-78.	1.0	19
42	Nanoindentation strain-rate jump tests for determining the local strain-rate sensitivity in nanocrystalline Ni and ultrafine-grained Al. <i>Journal of Materials Research</i> , 2011, 26, 1421-1430.	1.2	272
43	Accelerated grain refinement during accumulative roll bonding by nanoparticle reinforcement. <i>Scripta Materialia</i> , 2011, 64, 245-248.	2.6	88
44	Influence of Backpressure During ECAP on the Monotonic and Cyclic Deformation Behavior of AA5754 and Cu99.5. <i>Advanced Engineering Materials</i> , 2011, 13, 269-274.	1.6	7
45	Macro- and Nanomechanical Properties and Strain Rate Sensitivity of Accumulative Roll Bonded and Equal Channel Angular Pressed Ultrafine-Grained Materials. <i>Advanced Engineering Materials</i> , 2011, 13, 251-255.	1.6	34
46	Tailoring Nanostructured, Graded, and Particle-Reinforced Al Laminates by Accumulative Roll Bonding. <i>Advanced Materials</i> , 2011, 23, 2663-2668.	11.1	54
47	Mechanical Anisotropy of Aluminium Laminates Produced by ARB. <i>Materials Science Forum</i> , 2011, 702-703, 151-156.	0.3	2
48	Deformation Behaviour of Nanocrystalline Al Alloy, Processed by Severe Plastic Deformation. , 2010, , ,		1
49	Tailoring materials properties of UFG aluminium alloys by accumulative roll bonded sandwich-like sheets. <i>Journal of Materials Science</i> , 2010, 45, 4733-4738.	1.7	48
50	Tailoring Materials Properties by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2010, 12, 740-746.	1.6	49
51	Texture, Microstructure and Mechanical Properties of Ultrafine Grained Aluminum Produced by Accumulative Roll Bonding. <i>Advanced Engineering Materials</i> , 2010, 12, 989-994.	1.6	39
52	Influence of grain size and precipitates on the fatigue lives and deformation mechanisms in the VHCF-regime. <i>Procedia Engineering</i> , 2010, 2, 1025-1034.	1.2	27
53	Cyclic deformation and fatigue properties of very fine-grained metals and alloys. <i>International Journal of Fatigue</i> , 2010, 32, 1413-1427.	2.8	269
54	Plastic Anisotropy of Ultrafine Grained Al Alloy AA6016 Produced by Accumulative Roll Bonding. <i>Solid State Phenomena</i> , 2010, 160, 171-176.	0.3	1

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55	Influence of rolling direction on strength and ductility of aluminium and aluminium alloys produced by accumulative roll bonding. <i>Journal of Materials Science</i> , 2008, 43, 7320-7325.	1.7	37
56	XRD profile analysis characterization of ultrafine grained Al-Mg alloys. <i>Journal of Materials Science</i> , 2008, 43, 7481-7487.	1.7	13
57	Texture and Mechanical Anisotropy of Ultrafine-Grained Aluminum Alloy AA6016 Produced by Accumulative Roll Bonding. <i>Texture Stress and Microstructure</i> , 2008, 2008, 1-8.	0.3	12
58	Cyclic Deformation Behaviour and Fatigue Lives of Ultrafine-Grained Aluminium-Magnesium Alloys. <i>Materials Science Forum</i> , 2008, 584-586, 840-845.	0.3	11
59	Deformation behaviour, microstructure and processing of accumulative roll bonded aluminium alloy AA6016. <i>International Journal of Materials Research</i> , 2007, 98, 320-324.	0.1	30
60	Static and Cyclic Crack Growth Behavior of Ultrafine-Grained Al Produced by Different Severe Plastic Deformation Methods. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007, 38, 1926-1933.	1.1	28
61	Strain Rate Sensitivity of Ultrafine Grained FCC- and BCC-Type Metals. <i>Materials Science Forum</i> , 2006, 503-504, 781-786.	0.3	34
62	Microstructure and Mechanical Properties of Accumulative Roll Bonded AA6014/AA5754 Aluminium Laminates. <i>Materials Science Forum</i> , 0, 667-669, 217-222.	0.3	17
63	Influence of Nanoparticle Reinforcement on the Mechanical Properties of Ultrafine-Grained Aluminium Produced by ARB. <i>Materials Science Forum</i> , 0, 667-669, 725-730.	0.3	5
64	Properties and Limitation of an Oxide Coated Aluminum Brake Rotor. , 0, , .		3