

# C H Hakan GÃ¼r

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4734245/publications.pdf>

Version: 2024-02-01

53  
papers

1,048  
citations

471509

17  
h-index

434195

31  
g-index

54  
all docs

54  
docs citations

54  
times ranked

773  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D FEM simulation of steel quenching and investigation of the effect of asymmetric geometry on residual stress distribution. <i>Journal of Materials Processing Technology</i> , 2008, 207, 211-221.	6.3	98
2	Non-destructive determination of residual stress state in steel weldments by Magnetic Barkhausen Noise technique. <i>NDT and E International</i> , 2010, 43, 29-33.	3.7	95
3	Submerged Friction-Stir Welding (SFSW) Underwater and Under Liquid Nitrogen: An Improved Method to Join Al Alloys to Mg Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012, 43, 5106-5114.	2.2	89
4	Investigating the formation of intermetallic compounds during friction stir welding of magnesium alloy to aluminum alloy in air and under liquid nitrogen. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 71, 1493-1499.	3.0	73
5	A FEM based framework for simulation of thermal treatments: Application to steel quenching. <i>Computational Materials Science</i> , 2008, 44, 588-600.	3.0	72
6	Numerical investigation of non-homogeneous plastic deformation in quenching process. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2001, 319-321, 164-169.	5.6	46
7	Comparison of magnetic Barkhausen noise and ultrasonic velocity measurements for microstructure evaluation of SAE 1040 and SAE 4140 steels. <i>Materials Characterization</i> , 2007, 58, 447-454.	4.4	43
8	Monitoring the Microstructural Changes During Tempering of Quenched SAE 5140 steel by Magnetic Barkhausen Noise. <i>Journal of Nondestructive Evaluation</i> , 2007, 26, 107-113.	2.4	41
9	Failure analysis of fretting fatigue initiation and growth on railway axle press-fits. <i>Engineering Failure Analysis</i> , 2018, 84, 151-166.	4.0	40
10	Non-destructive investigation on the effect of precipitation hardening on impact toughness of 7020 Al-Zn-Mg alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004, 382, 395-400.	5.6	39
11	Characterization of microstructural phases of steels by sound velocity measurement. <i>Materials Characterization</i> , 2005, 55, 160-166.	4.4	37
12	Characterization of Dual-Phase Steels Using Magnetic Barkhausen Noise Technique. <i>Journal of Nondestructive Evaluation</i> , 2007, 26, 79-87.	2.4	34
13	Characterization of ultra-fine grained steel samples produced by high pressure torsion via magnetic Barkhausen noise analysis. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 927-933.	5.6	34
14	Mechanical and microstructural characterization of 6061 aluminum alloy strips severely deformed by Dissimilar Channel Angular Pressing. <i>Materials Characterization</i> , 2011, 62, 391-397.	4.4	25
15	Investigation of microstructure-ultrasonic velocity relationship in SiCp-reinforced aluminium metal matrix composites. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 361, 29-35.	5.6	23
16	Homogenization of ECAPed Al 2024 alloy through age-hardening. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 601-606.	5.6	21
17	Characterization of duplex stainless steel weld metals obtained by hybrid plasma-gas metal arc welding. <i>Soldagem E Inspecao</i> , 2013, 18, 207-216.	0.6	19
18	Investigation of the influence of specimen geometry on quench behaviour of steels by X-ray determination of surface residual stresses. <i>International Journal of Mechanical Sciences</i> , 2002, 44, 1335-1347.	6.7	17

#	ARTICLE	IF	CITATIONS
19	Non-destructive microstructural characterization of aluminium matrix composites by ultrasonic techniques. <i>Materials Characterization</i> , 2001, 47, 227-233.	4.4	16
20	Long-term thermal stability of Equal Channel Angular Pressed 2024 aluminum alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 677, 307-315.	5.6	14
21	Effects of heat input on metallurgical behavior in HAZ of multi-pass and multi-layer welded IN-939 superalloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 1590-1603.	5.8	14
22	Monitoring the Microstructural Evolution in Spheroidized Steels by Magnetic Barkhausen Noise Measurements. <i>Journal of Nondestructive Evaluation</i> , 2010, 29, 241-247.	2.4	13
23	Quantitative analysis of the influence of strain hardening on equal channel angular pressing process. <i>Computational Materials Science</i> , 2010, 48, 633-639.	3.0	13
24	Applicability of the Magnetic Barkhausen Noise Method for Nondestructive Measurement of Residual Stresses in the Carburized and Tempered 19CrNi5H Steels. <i>Research in Nondestructive Evaluation</i> , 2018, 29, 221-236.	1.1	13
25	Investigating the effects of hardening of aluminium alloys on equal-channel angular pressingâ€”A finite-element study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2009, 503, 148-151.	5.6	11
26	Effect of tube spinning and subsequent heat treatments on strength, microstructure and residual stress state of AISI/SAE type 4140 steel. <i>Materials Science and Technology</i> , 2003, 19, 1590-1594.	1.6	10
27	Determination of the influence of TiO <sub>2</sub> on the elastic properties of a mica based glass ceramic by ultrasonic velocity measurements. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 3655-3662.	3.1	10
28	Utilization of Non-destructive Methods for Determining the Effect of Age-Hardening on Impact Toughness of 2024 Alâ€”Cuâ€”Mg Alloy. <i>Journal of Nondestructive Evaluation</i> , 2008, 27, 99-104.	2.4	10
29	Determining the elastic properties of modified polystyrenes by sound velocity measurements. <i>Journal of Applied Polymer Science</i> , 2011, 121, 3425-3432.	2.6	10
30	Ultrasonic characterisation of hot-rolled and heat-treated plain carbon steels. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2003, 45, 615-620.	0.6	9
31	Effect of Welding Parameters on the Liquation Cracking Behavior of High-Chromium Ni-Based Superalloy. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 7843-7852.	2.5	9
32	Effects of Pre-Weld Heat Treatment and Heat Input on Metallurgical and Mechanical Behaviour in HAZ of Multi-Pass Welded IN-939 Superalloy. <i>Metals</i> , 2020, 10, 1453.	2.3	9
33	Review of Residual Stress Measurement by Magnetic Barkhausen Noise Technique. <i>Materials Performance and Characterization</i> , 2018, 7, 504-525.	0.3	8
34	Comparison of Electronic Speckle Laser Interferometry Hole-Drilling and X-ray Diffraction Techniques for Determination of Residual Stresses in the Heat Treated Steels. <i>Journal of Nondestructive Evaluation</i> , 2017, 36, 1.	2.4	6
35	Investigation of the Variations in Microstructure and Mechanical Properties of Dual-Matrix Ductile Iron by Magnetic Barkhausen Noise Analysis. <i>Research in Nondestructive Evaluation</i> , 2008, 19, 44-60.	1.1	5
36	Monitoring variation of surface residual stresses in shot peened steel components by the magnetic Barkhausen noise method. <i>Insight: Non-Destructive Testing and Condition Monitoring</i> , 2010, 52, 672-677.	0.6	4

#	ARTICLE	IF	CITATIONS
37	Determination of surface residual stresses in carburised AISI 8620 steel by the magnetic Barkhausen noise method. Insight: Non-Destructive Testing and Condition Monitoring, 2020, 62, 416-421.	0.6	4
38	Simulation of Quenching: A Review. Materials Performance and Characterization, 2012, 1, 104479.	0.3	3
39	Investigation of as-quenched and tempered commercial steels by Magnetic Barkhausen Noise method. International Journal of Microstructure and Materials Properties, 2006, 1, 208.	0.1	2
40	Simulation of equal channel angular pressing applied to produce structures with ultrafine-sized grains. International Journal of Microstructure and Materials Properties, 2009, 4, 356.	0.1	2
41	A new framework for simulation of heat treatments. International Journal of Microstructure and Materials Properties, 2010, 5, 399.	0.1	2
42	Microstructural investigation of SAE 1040 steel specimens by ultrasonic measurements. Insight: Non-Destructive Testing and Condition Monitoring, 2005, 47, 421-424.	0.6	1
43	Investigation of Microstructure Inhomogeneity in SiC <sub>p</sub> -Reinforced Aluminum Matrix Composites. Materials Science Forum, 2007, 534-536, 901-904.	0.3	1
44	Metallurgical influence on quench distortion of SAE 52100 long cylinders. International Heat Treatment and Surface Engineering, 2011, 5, 57-60.	0.2	1
45	Description of the PM Process by Using Ishikawa-Analysis. Materials Science Forum, 2013, 752, 48-56.	0.3	1
46	Numerical and Experimental Determination of the Residual Stress State in Multipass Welded API 5L X70 Plates*. Materialpruefung/Materials Testing, 2014, 56, 831-836.	2.2	1
47	Comparison of the Deep Drawability of Aluminum and Steel using Numerical Simulation Experiments. AIP Conference Proceedings, 2005, , .	0.4	0
48	Microstructure Characterization of SiC <sub>p</sub> -Reinforced Aluminum Matrix Composites by Newly Developed Computer-Based Algorithms. Materials Science Forum, 2007, 534-536, 909-912.	0.3	0
49	Finite Element Investigation of the Effect of Hardening Behavior of Alloys on Equal Channel Angular Pressing Performance. Materials Science Forum, 2008, 584-586, 1021-1026.	0.3	0
50	Investigation of the Microstructure and Hardness of SiC <sub>P</sub> Reinforced Aluminum Matrix Composites. Materials Science Forum, 2008, 589, 239-244.	0.3	0
51	Nondestructive Monitoring of Variations of Residual Stresses in Steel Weldments by Magnetic Barkhausen Noise Method. , 2013, , .		0
52	An Empirical Approach to Analyze Creep Rupture Behavior of P91 Steel. Korean Journal of Materials Research, 2021, 31, 255-263.	0.2	0
53	Investigating the correlation between magnetic Barkhausen noise emission and the fatigue life of shot-peened AISI 4140 steel. Insight: Non-Destructive Testing and Condition Monitoring, 2019, 61, 701-705.	0.6	0