

# Derya Dispinar

## List of Publications by Year in descending order

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80  
papers

1,266  
citations

430754

18  
h-index

414303

32  
g-index

100  
all docs

100  
docs citations

100  
times ranked

500  
citing authors

#	ARTICLE	IF	CITATIONS
1	Weibull analysis evaluation of Ti, B, Nb and MTS grain refined Al11Si alloy. Materials Chemistry and Physics, 2022, 287, 126264.	2.0	3
2	Recycling of additive manufactured AlSi10Mg and its effect on mechanical properties. Materials Chemistry and Physics, 2022, 289, 126411.	2.0	2
3	Artificial Neural Network Modeling of Grain Refinement Performance in AlSi10Mg Alloy. International Journal of Metalcasting, 2021, 15, 338-348.	1.5	4
4	Characterization of properties of Vanadium, Boron and Strontium addition on HPDC of A360 alloy. Materials Chemistry and Physics, 2021, 271, 124931.	2.0	3
5	Metallothermic Production of Aluminum-Strontium Master Alloy for Modification of Silicon. Metallography, Microstructure, and Analysis, 2020, 9, 833-840.	0.5	1
6	Investigating the Optimum Model Parameters for Casting Process of A356 Alloy: A Cross-validation Using Response Surface Method and Particle Swarm Optimization. Arabian Journal for Science and Engineering, 2020, 45, 9759-9768.	1.7	7
7	The Effects of Cr and Zr Additives on the Microstructure and Mechanical Properties of A356 Alloy. Transactions of the Indian Institute of Metals, 2020, 73, 1273-1285.	0.7	7
8	Mechanical and tribological characteristics of boron carbide reinforcement of AA6061 matrix composite. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	0.8	32
9	Sr addition and its effect on the melt cleanliness of A356. Materials Research Express, 2020, 7, 026549.	0.8	6
10	ET-AL 221 Ala±m±nda Kat±la±ma H±z± ve Su Verme Ortamlar±n±n Mekanik ±zelliklere Etkisinin ±statistiksel Analizi. Uluda± University Journal of the Faculty of Engineering, 2020, 25, 169-186.	0.2	1
11	A comparative study of the mechanical and tribological behaviours of different aluminium matrix±ceramic composites. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	26
12	Determination of Acceptable Quality Limit for Casting of A356 Aluminium Alloy: Supplier±s Quality Index (SQI). Metals, 2019, 9, 957.	1.0	19
13	Production and mechanical characterization of Ni-coated carbon fibers reinforced Al-6063 alloy matrix composites. Journal of Alloys and Compounds, 2019, 787, 543-550.	2.8	54
14	Time-dependent corrosion properties of Sr-modified AlSi9 alloy analyzed by electrochemical techniques. Journal of Alloys and Compounds, 2019, 803, 786-794.	2.8	7
15	End product rejection rate and its correlation with melt treatment in direct-chill casted hot rolling slabs. International Journal of Cast Metals Research, 2019, 32, 164-170.	0.5	7
16	Effect of Copper and Nickel Addition on Mechanical Properties of A356 Alloy and Assessment of Mechanism of Pore Formation. Minerals, Metals and Materials Series, 2019, , 329-336.	0.3	0
17	Melt Cleaning Efficiency of Various Fluxes for A356 Alloy. Minerals, Metals and Materials Series, 2019, , 273-280.	0.3	3
18	Relation Between Microstructure and Tensile Properties of V and B Added Al-7Si Alloy. Minerals, Metals and Materials Series, 2019, , 311-320.	0.3	1

#	ARTICLE	IF	CITATIONS
19	Correlation Between Melt Quality and Machinability of Al9Si3Cu HPDC Alloy. Minerals, Metals and Materials Series, 2019, , 343-352.	0.3	1
20	Change in Sr Modification by Duration and Its Effect on Mechanical Properties of A360 and A413 Alloy. Minerals, Metals and Materials Series, 2019, , 353-361.	0.3	3
21	Influence of Melt Quality on the Fluidity of AlSi12Fe. Minerals, Metals and Materials Series, 2019, , 373-379.	0.3	0
22	Determination of Liquid Metal Quality with Deep Etching Method. Minerals, Metals and Materials Series, 2019, , 73-84.	0.3	1
23	Characterization of the Effect of Sr and Ti on Liquid Quality in Al8Si3Cu. Minerals, Metals and Materials Series, 2019, , 167-175.	0.3	0
24	Investigation of Casting Quality Change of A356 by Duration in Liquid State. Minerals, Metals and Materials Series, 2019, , 159-166.	0.3	0
25	The Use of Stirring Methods for the Production of SiC-Reinforced Aluminum Matrix Composite and Validation Via Simulation Studies. International Journal of Metalcasting, 2019, 13, 190-200.	1.5	24
26	Microstructural and Mechanical Evolution of Semisolid 7075 Al Alloy Produced by SIMA Process at Various Heat Treatment Parameters. Arabian Journal for Science and Engineering, 2019, 44, 1243-1253.	1.7	9
27	Improvement in Metallurgical Properties of Gravity Die Cast 2024-T6 Aluminum Alloy via Cryogenic Process. Minerals, Metals and Materials Series, 2019, , 263-271.	0.3	4
28	Freezing Range, Melt Quality, and Hot Tearing in Al-Si Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 1948-1961.	1.1	24
29	On the Interpretation of Melt Quality Assessment of A356 Aluminum Alloy by the Reduced Pressure Test: The Bifilm Index and Its Physical Meaning. International Journal of Metalcasting, 2018, 12, 853-860.	1.5	25
30	The effects of degassing, grain refinement & Sr-addition on melt quality-hot tear sensitivity relationships in cast A380 aluminum alloy. Engineering Failure Analysis, 2018, 90, 90-102.	1.8	25
31	Effect of Degassing and Grain Refinement on Hot Tearing Tendency in Al8Si3Cu Alloy. International Journal of Metalcasting, 2018, 12, 589-595.	1.5	10
32	Corrosion Behavior of B and Ti Grain-Refined Sr-Modified A356. Journal of Materials Engineering and Performance, 2018, 27, 5197-5204.	1.2	5
33	Effects of strontium addition on the microstructure and corrosion behavior of A356 aluminum alloy. Journal of Alloys and Compounds, 2018, 763, 384-391.	2.8	64
34	Change in Porosity of A356 by Holding Time and Its Effect on Mechanical Properties. Journal of Materials Engineering and Performance, 2018, 27, 5141-5151.	1.2	14
35	Correlation Between Machinability and Chip Morphology of Austempered Ductile Iron. Journal of Testing and Evaluation, 2018, 46, 1012-1021.	0.4	7
36	Relationship Between Machinability, Microstructure, and Mechanical Properties of Al-7Si Alloy. Journal of Testing and Evaluation, 2018, 46, 2592-2603.	0.4	19

#	ARTICLE	IF	CITATIONS
37	Microstructureâ€“bifilm interaction and its relation with mechanical properties in A356. International Journal of Cast Metals Research, 2017, 30, 20-29.	0.5	16
38	Effect of Sr and Ti Addition on the Corrosion Behaviour of Al-7Si-0.3Mg Alloy. Archives of Foundry Engineering, 2017, 17, 125-130.	0.4	7
39	Friction and Wear Properties of Plasma Sprayed YSZ/Ni-Cr-Al Coated 6063-T6 Aluminum Alloy. Archives of Foundry Engineering, 2017, 17, 168-174.	0.4	1
40	Assessment of Mechanism of Pore Formation in Directionally Solidified A356 Alloy. Archives of Foundry Engineering, 2017, 17, 157-162.	0.4	13
41	Taguchi Approach for Optimization of Parameters that Effect Grain Size of Cast A357 Alloy. Archives of Foundry Engineering, 2017, 17, 35-42.	0.4	5
42	Observation of Hot Tearing in Sr-B Modified A356 Alloy. Archives of Foundry Engineering, 2017, 17, 165-168.	0.4	4
43	Characterization of the Effect of Melt Treatments on Melt Quality in Al-7wt %Si-Mg Alloys. Metals, 2017, 7, 157.	1.0	34
44	Mould Filling Ability Characterisation of Sima Produced 6063 Alloy. , 2016, , 481-486.		0
45	Melt Cleanliness Comparison of Chlorine Fluxing and Ar Degassing of Secondary Al-4Cu. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2705-2709.	1.0	5
46	Quality Evaluation of Remelted A356 Scraps. Archives of Foundry Engineering, 2016, 16, 151-156.	0.4	13
47	Change in Silicon Morphology with Time and Temperature in Sr Modified A356. , 2016, , 175-183.		0
48	Bifilms and Hot Tearing of Al-Si Alloys. , 2016, , 3-10.		1
49	Effects of Casting Conditions on End Product Defects in Direct Chill Casted Hot Rolling Ingots. , 2016, , 185-193.		0
50	Mechanical Properties and Melt Quality Relationship of Sr-modified Al-12Si Alloy. Archives of Foundry Engineering, 2015, 15, 134-140.	0.4	6
51	The effect of melt quality and quenching temperature on the Weibull distribution of tensile properties in aluminium alloys. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 1005-1013.	0.5	6
52	The Effect of Desulfobivrio sp. Biofilms on Corrosion Behavior of Copper in Sulfide-Containing Solutions. Journal of Materials Engineering and Performance, 2015, 24, 1357-1364.	1.2	8
53	Wear properties of squeeze cast <i>in situ</i> Mg <sub>2</sub> Siâ€“A380 alloy. International Journal of Cast Metals Research, 2015, 28, 59-64.	0.5	5
54	Influence of Different Cross Sections on Fluidity Characteristics of A356. Transactions of the Indian Institute of Metals, 2015, 68, 275-281.	0.7	16

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55	The Effect of Sr Modification and Holding Time on Si Morphology and Mechanical Properties of ETIAL 195 Alloy. Pamukkale University Journal of Engineering Sciences, 2015, 21, 348-351.	0.2	4
56	The Effect of Si Morphology on Machinability of Al-Si Alloys. Pamukkale University Journal of Engineering Sciences, 2015, 21, 381-385.	0.2	3
57	Reduced Pressure Test (RPT) For Bifilm Assessment. , 2014, , 241-251.		5
58	Correlation between Bifilm Index and Toughness of Aluminum Alloys. , 2014, , 171-176.		1
59	Reduced Pressure Test (RPT) for Bifilm Assessment. , 2014, , 243-251.		9
60	Fluidity Characteristics of A356 Alloy with Various Thickness Sectioned New Test Mould. , 2014, , 105-112.		1
61	Near-Net-Shape Processing of 2024 Aluminium Alloy by SIMA Method. , 2014, , 233-240.		2
62	Correlation between Melt Quality and Fluidity of A356. , 2014, , 99-104.		1
63	Correlation between Mechanical Properties and Porosity Distribution of A356 in Gravity Die Casting and Low Pressure Die Casting. Advanced Materials Research, 2012, 445, 283-288.	0.3	9
64	Influence of Oxide Additions on the Porosity Development and Mechanical Properties of A356 Aluminium Alloy Castings. International Journal of Metalcasting, 2012, 6, 41-50.	1.5	21
65	Effect of Melt Quality and Quenching Temperature on the Mechanical Properties of SIMA 2024 and 7075. Advanced Materials Research, 2012, 445, 171-176.	0.3	3
66	Defect Analysis by Casting Simulation Software in Rolling Roll Manufactured by GGG70. , 2012, , 213-218.		0
67	Quality Comparison between Molten Metal from Remelted Sheets; Mill Finish and Coated. , 2012, , 1031-1035.		2
68	Blistering Problems Observed in Strain Induced Melt Activated Aluminium Alloys. Transactions of the Indian Institute of Metals, 2011, 64, 555-563.	0.7	4
69	Porosity, hydrogen and bifilm content in Al alloy castings. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3860-3865.	2.6	107
70	Quality Assesment of Recycled Aluminium. , 2011, , 731-735.		9
71	Degassing, hydrogen and porosity phenomena in A356. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 527, 3719-3725.	2.6	111
72	A Comparative Study of Porosity and Pore Morphology in a Directionally Solidified A356 Alloy. International Journal of Metalcasting, 2009, 3, 39-52.	1.5	10

#	ARTICLE	IF	CITATIONS
73	Numerical modelling of magnesium die-castings using stochastic fracture parameters. Engineering Fracture Mechanics, 2009, 76, 2232-2248.	2.0	21
74	Effect of hydrogen content, melt cleanliness and solidification conditions on tensile properties of A356 alloy. International Journal of Cast Metals Research, 2009, 22, 22-25.	0.5	13
75	Effect of casting conditions on aluminium metal quality. Journal of Materials Processing Technology, 2007, 182, 405-410.	3.1	56
76	Supercooling of metal in fine filters. Journal of Materials Science, 2007, 42, 10296-10298.	1.7	9
77	Use of bifilm index as an assessment of liquid metal quality. International Journal of Cast Metals Research, 2006, 19, 5-17.	0.5	74
78	Critical assessment of reduced pressure test. Part 2: Quantification. International Journal of Cast Metals Research, 2004, 17, 287-294.	0.5	83
79	Critical assessment of reduced pressure test. Part 1: Porosity phenomena. International Journal of Cast Metals Research, 2004, 17, 280-286.	0.5	126
80	Influence of Melt Quality on Machinability of HPDC Al9Si3Cu. Jom, 0, , 1.	0.9	0