

# GÃ¼ven Kurtuldu

## List of Publications by Year in descending order

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18  
papers

486  
citations

933447

10  
h-index

839539

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g-index

18  
all docs

18  
docs citations

18  
times ranked

530  
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser additive manufacturing of biodegradable magnesium alloy WE43: A detailed microstructure analysis. <i>Acta Biomaterialia</i> , 2019, 98, 36-49.	8.3	103
2	Influence of Cr on the nucleation of primary Al and formation of twinned dendrites in Al-Zn-Cr alloys: Can icosahedral solid clusters play a role?. <i>Acta Materialia</i> , 2013, 61, 7098-7108.	7.9	83
3	Icosahedral quasicrystal-enhanced nucleation of the fcc phase in liquid gold alloys. <i>Acta Materialia</i> , 2014, 70, 240-248.	7.9	67
4	Structured nanoscale metallic glass fibres with extreme aspect ratios. <i>Nature Nanotechnology</i> , 2020, 15, 875-882.	31.5	59
5	Metastable quasicrystal-induced nucleation in a bulk glass-forming liquid. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 6123-6128.	7.1	37
6	Influence of icosahedral short range order on diffusion in liquids: A study on Al-Zn-Cr alloys. <i>Acta Materialia</i> , 2016, 115, 423-433.	7.9	33
7	Thermodynamic Aspects of Homogeneous Nucleation Enhanced by Icosahedral Short Range Order in Liquid Fcc-Type Alloys. <i>Jom</i> , 2015, 67, 1812-1820.	1.9	22
8	Additive manufacturing of a precious bulk metallic glass. <i>Applied Materials Today</i> , 2021, 24, 101080.	4.3	18
9	Bulk metallic glass casting investigated using high-speed infrared monitoring and complementary fast scanning calorimetry. <i>Acta Materialia</i> , 2018, 151, 416-423.	7.9	17
10	Multistep Crystallization and Melting Pathways in the Free Energy Landscape of a Au-Si Eutectic Alloy. <i>Advanced Science</i> , 2020, 7, 1903544.	11.2	11
11	Assessing continuous casting of precious bulk metallic glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 521, 119120.	3.1	8
12	Influence of Minor Cr-Additions to the Growth of Columnar Dendrites in Al-Zn Alloys: Influence of Icosahedral Short Range Order in the Liquid. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020, 51, 279-288.	2.2	8
13	Quasicrystal-Enhanced Nucleation During the Solidification of fcc Metallic Alloys: A Tentative Thermodynamic Approach. <i>Journal of Phase Equilibria and Diffusion</i> , 2016, 37, 2-3.	1.4	5
14	Controlling diffusion in Ni/Al reactive multilayers by Nb-alloying. <i>Applied Physics Letters</i> , 2017, 111, 173902.	3.3	5
15	On the Magnetism Behind the Besnus Transition in Monoclinic Pyrrhotite. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6236-6246.	3.4	5
16	Probability of twin boundary formation associated with the nucleation of equiaxed grains on icosahedral quasicrystal templates. <i>IOP Conference Series: Materials Science and Engineering</i> , 2015, 84, 012012.	0.6	2
17	Insight into crystallization paths in Au-Si eutectic alloy through the energy-temperature diagram. <i>Materialia</i> , 2021, 16, 101093.	2.7	2
18	Comment on "Formation of twin boundaries in commercial purity aluminum with addition of Ti refiner" by Zhongwei Chen, Jianping Gao, Kang Yan. <i>Materials Letters</i> , 2019, 241, 248-249.	2.6	1