

Wenchao Duan

List of Publications by Year in descending order

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Version: 2024-02-01

12
papers

338
citations

1478505

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h-index

1281871

11
g-index

12
all docs

12
docs citations

12
times ranked

207
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of specific second phases on corrosion behaviors of Mg-Zn-Gd-Zr alloys. <i>Corrosion Science</i> , 2020, 166, 108419.	6.6	170
2	Improving the corrosion resistance of MgZn _{1.2} Gd Zr _{0.18} (x = 0, 0.8, 1.4, 2.0) alloys via Gd additions. <i>Corrosion Science</i> , 2020, 177, 108962.	6.6	80
3	One-step preparation of C-doped TiO ₂ nanotubes with enhanced photocatalytic activity by a water-assisted method. <i>CrystEngComm</i> , 2021, 23, 3015-3025.	2.6	20
4	Numerical and experimental studies on solidification of AZ80 magnesium alloy under out-of-phase pulsed magnetic field. <i>Journal of Magnesium and Alloys</i> , 2021, 9, 166-182.	11.9	16
5	Recent Progress in Anodic Oxidation of TiO ₂ Nanotubes and Enhanced Photocatalytic Performance: A Short Review. <i>Nano</i> , 2021, 16, 2130002.	1.0	15
6	Simulation on DC casting of magnesium alloy under out-of-phase pulsed magnetic field with different coil connection strategies. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120353.	4.8	14
7	Numerical study of flow and heat transfer behaviors during direct-chill casting of large-size magnesium alloy billet under pulsed magnetic field. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2021, 31, 829-857.	2.8	9
8	Establishment of flow stress model and optimization of process parameters for ZK10 magnesium alloy with low zinc-content during isothermal compression. <i>Journal of Materials Research and Technology</i> , 2021, 12, 569-580.	5.8	4
9	Modelling the fluid flow, solidification and segregation behavior in electromagnetic DC casting of magnesium alloy. <i>Simulation Modelling Practice and Theory</i> , 2022, 115, 102460.	3.8	4
10	Effects of different crystallization methods on photocatalytic performance of TiO ₂ nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2021, 127, 1.	2.3	3
11	Numerical study on transient melt oscillation and solidification characteristic during magnesium alloy direct chill casting under out-of-phase pulsed magnetic field. <i>Materials Today Communications</i> , 2022, 31, 103441.	1.9	2
12	3-D Mathematical Modeling of the Effect of Shunt Plate Hole Distribution and Magnetic Field on Transport Phenomena Within DC Casting of Magnesium Alloy Slab. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 0, , 1.	2.2	1