

# Jian Peng

## List of Publications by Year in descending order

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31  
papers

1,307  
citations

331670

21  
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414414

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32  
all docs

32  
docs citations

32  
times ranked

845  
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and electrical conductivity of binary magnesium alloys. <i>Journal of Materials Science</i> , 2014, 49, 3107-3124.	3.7	114
2	Effect of Ca addition on the corrosion behavior of Mg-Al-Mn alloy. <i>Applied Surface Science</i> , 2016, 369, 92-100.	6.1	111
3	Dynamic recrystallization behavior and hot workability of Mg-2.0Zn-0.3Zr-0.9Y alloy by using hot compression test. <i>Materials &amp; Design</i> , 2014, 53, 357-365.	5.1	103
4	The effect of 14H LPSO phase on dynamic recrystallization behavior and hot workability of Mg-2.0Zn-0.3Zr-5.8Y alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014, 599, 150-159.	5.6	88
5	Constitutive modeling of dynamic recrystallization kinetics and processing maps of Mg-2.0Zn-0.3Zr alloy based on true stress-strain curves. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 560, 727-733.	5.6	79
6	The effect of LPSO phase on hot deformation behavior and dynamic recrystallization evolution of Mg-2.0Zn-0.3Zr-5.8Y alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 579, 209-216.	5.6	56
7	Effect of Ce addition on the microstructure, thermal conductivity and mechanical properties of Mg-0.5Mn alloys. <i>Journal of Alloys and Compounds</i> , 2016, 661, 402-410.	5.5	56
8	High-conductivity binary Mg-Zn sheet processed by cold rolling and subsequent aging. <i>Journal of Alloys and Compounds</i> , 2013, 578, 493-500.	5.5	54
9	The effect of addition of Nd and Ce on the microstructure and mechanical properties of ZM21 Mg alloy. <i>Journal of Magnesium and Alloys</i> , 2013, 1, 94-100.	11.9	53
10	Microstructure and Thermal Conductivity of As-Cast and As-Solutionized Mg-Rare Earth Binary Alloys. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1240-1248.	10.7	52
11	Effect of extrusion temperature on the microstructure and thermal conductivity of Mg-2.0Zn-1.0Mn-0.2Ce alloys. <i>Materials and Design</i> , 2015, 87, 914-919.	7.0	51
12	Correlation on the Electrical and Thermal Conductivity for Binary Mg-Al and Mg-Zn Alloys. <i>International Journal of Thermophysics</i> , 2013, 34, 1336-1346.	2.1	46
13	Modeling and application of constitutive model considering the compensation of strain during hot deformation. <i>Journal of Alloys and Compounds</i> , 2016, 681, 455-470.	5.5	45
14	Influence of stacking fault energy on formation of long period stacking ordered structures in Mg-Zn-Y-Zr alloys. <i>Progress in Natural Science: Materials International</i> , 2011, 21, 485-490.	4.4	42
15	On the microstructure and mechanical property of as-extruded Mg-Sn-Zn alloy with Cu addition. <i>Journal of Alloys and Compounds</i> , 2018, 744, 234-242.	5.5	42
16	Microstructure and mechanical properties of Mg-Gd-Zr alloys with low gadolinium contents. <i>Journal of Materials Science</i> , 2011, 46, 5838-5846.	3.7	39
17	Effect of Ce addition on thermal conductivity of Mg-2Zn-1Mn alloy. <i>Journal of Alloys and Compounds</i> , 2015, 639, 556-562.	5.5	37
18	Effects of precipitates and its interface on thermal conductivity of Mg-12Gd alloy during aging treatment. <i>Materials Characterization</i> , 2018, 138, 284-288.	4.4	37

#	ARTICLE	IF	CITATIONS
19	Research on the microstructure and properties of a multi-pass friction stir processed 6061Al coating for AZ31 Mg alloy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 696-706.	11.9	35
20	Effects of Ca Addition on the Mechanical Properties and Corrosion Behavior of ZM21 Wrought Alloys. <i>Acta Metallurgica Sinica (English Letters)</i> , 2017, 30, 53-65.	2.9	30
21	Effect of Mn Modification on the Corrosion Susceptibility of Mg-Al-Mn Alloys by Magnesium Scrap. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 1-11.	2.9	27
22	Influence of aging prior to extrusion on the microstructure and corrosion resistance of Mg-8Sn-2Zn-0.2Mn alloy. <i>Journal of Alloys and Compounds</i> , 2019, 780, 783-791.	5.5	20
23	Evolution of the microstructure, texture and thermal conductivity of as-extruded ZM60 magnesium alloy in pre-compression. <i>Journal of Alloys and Compounds</i> , 2019, 775, 707-713.	5.5	16
24	Flow and fracture study for ZK60 alloy at dynamic strain rates and different loading states. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 724, 208-219.	5.6	15
25	Effect of Mn Modification on Microstructure and Mechanical Properties of Magnesium Alloy with Low Gd Content. <i>Metals and Materials International</i> , 2021, 27, 1483-1492.	3.4	14
26	Hot deformation behavior of homogenized Al-3.2Mg-0.4Er aluminum alloy. <i>Transactions of Nonferrous Metals Society of China</i> , 2016, 26, 945-955.	4.2	13
27	Mechanical properties and energy absorption of extruded Mg-2.0Zn-0.3Zr alloy with Y addition. <i>Rare Metals</i> , 2015, 34, 314-323.	7.1	10
28	The Effect of Icosahedral Phase on Dynamic Recrystallization Evolution and Hot Workability of Mg-2.0Zn-0.3Zr-0.2Y Alloy. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3502-3512.	2.5	8
29	An improved neural network model for prediction of mechanical properties of magnesium alloys. <i>Science in China Series D: Earth Sciences</i> , 2009, 52, 155-160.	0.9	5
30	Study the effect of SiC content on the wear behavior and mechanism of as-extruded SiCp/Al-Cu-Mg-Zn alloy under simulating drilling operation. <i>Surface and Interface Analysis</i> , 2016, 48, 853-860.	1.8	4
31	Microstructure evolution of cast Al-Si-Cu alloys in solution treatment. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 184-188.	1.0	3