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## 钟宏

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### 基本信息 The basic information

姓名: 钟宏

学院: 材料学院

学历: 博士研究生毕业

学位:

博士

职称: 副教授

职务:

学科:

材料科学与工程

邮箱: [zhonghong123@nwpu.edu.cn](mailto:zhonghong123@nwpu.edu.cn)

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## 工作经历 Work Experience

2008.12-至今, 西北工业大学材料学院

## 教育经历 Education Experience

★ 2003.9-2008.12, 西北工业大学材料学院, 攻读博士学位(硕博连读)

★ 1999.9-2003.7, 西北工业大学材料学院, 本科

## 教育教学 Education And Teaching

主讲本科生课程《工程材料学》《材料力学性能》

## 招生信息 Admission Information

★ 材料学

★ 材料加工工程

★ 材料工程

## 科学研究 Scientific Research

主持国家自然科学基金面上项目、国家自然科学基金青年基金项目、航空科学基金项目, 主要研究方向为:

(1) 先进材料取向生长

(2) 凝固理论与凝固技术

## 学术成果 Academic Achievements

主要研究方向论文成果:

[1] Zhenpeng Liu, Hong Zhong\*, Yumin Wang, Shuangming Li, Hengzhi Fu. Mechanical behavior of DD5 single crystal superalloy with different misorientation under quasi-static and dynamic compression. *Journal of Materials Research*, 2018, Being published

[2] Influence of fiber size and interface morphology on the electrochemical corrosion resistance of directionally solidified NiAl-9Mo eutectic alloy. *Rare metal materials and Engineering*, 2018, Being published

[3] [BinqiangWang](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [ShuangmingLi](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [YumingWang](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [HongZhong](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [RuiHu](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [YiLiu](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!), [XimingLuo](https://www.sciencedirect.com/science/article/pii/S0042207X18303415#!). Single-crystal growth of iridium with [100] and [110] orientations by electron beam zone melting. *Vacuum* (<https://www.sciencedirect.com/science/journal/0042207X>), 2018, 154: 141–147

[4] [LuvanYang](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!), [ShuangmingLi](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!), [KaiFan](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!), [YangLi](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!), [HongZhong](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!), [HengzhiFu](https://www.sciencedirect.com/science/article/pii/S0022024818301908#!). TEM investigations on twin boundary structures of feathery crystals in aluminum alloys during Bridgman solidification. *Journal of Crystal Growth* (<https://www.sciencedirect.com/science/journal/00220248>), 2018, 492:77–83.

[5] [LuvanYang](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [ShuangmingLi](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [JunboGuo](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [KaiFan](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [YangLi](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [HongZhong](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!), [HengzhiFu](https://www.sciencedirect.com/science/article/pii/S092583881830135X#!). Pattern selection of twinned growth in aluminum alloys during Bridgman solidification. *Journal of Alloys & Compounds* ([http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28fd99da0853c3db3f%29%20%E3%80%8AJournal%20of%20Alloys%20%26%20Compounds%E3%80%8B&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc\\_f\\_para=sc\\_highlight%3Dpublish&sort=sc\\_cited](http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28fd99da0853c3db3f%29%20%E3%80%8AJournal%20of%20Alloys%20%26%20Compounds%E3%80%8B&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc_f_para=sc_highlight%3Dpublish&sort=sc_cited)), 2018, 741

[6] [X Li](http://xueshu.baidu.com/s?wd=author%3A%28Xin%20Li%29%20Northwestern%20Polytechnical%20University&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc_f_para=sc_highlight%3Dperson), [S Li](http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20Northwestern%20Polytechnical%20University&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc_f_para=sc_highlight%3Dperson), [S Feng](http://xueshu.baidu.com/s?wd=author%3A%28Songke)

20Feng%29%20Northwest%20A%26F%20University&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson), H Zhong (<http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20Northwestern%20Polytechnical%20University&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>). Thermoelectric Properties Prediction of n-Type  $Mg_{2-x}Si_{1+x}Sn_x$  Compounds by First Principles Calculation (<http://link.springer.com/10.1007/s11664-017-5890-1>). *Journal of Electronic Materials* (<http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%282899a5aba54c940e%29%20E3%80%8AJournal%20of%20Electronic%20Materials%E3%80%8B&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited>), 2018, 47 (2):1022-1029

[7] H Wang (<http://xueshu.baidu.com/s?wd=author%3A%28Hongqiang%20Wang%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20P.%20R.%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), S Li (<http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20P.%20R.%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), L Xin (<http://xueshu.baidu.com/s?wd=author%3A%28Xin%20Lia%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20P.%20R.%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), H Zhong (<http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20P.%20R.%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>). Microstructure and thermoelectric properties of doped p-type  $CoSb_3$  under TGZM effect (<http://xueshu.baidu.com/s?wd=paperuri%3A%2828d3b9e91a53daa40fab294193c737a7%29&filter=sc long sign&tn=SE xueshusource 2kduw22v&sc vurl=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS002202481730177X&ie=utf-8&sc us=3249666271182752372>). *Journal of Crystal Growth* (<http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28434ede99be2400d2%29%20E3%80%8AJournal%20of%20Crystal%20Growth%E3%80%8B&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited>), 2017, 466

[8] X Li (<http://xueshu.baidu.com/s?wd=author%3A%28Xin%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%2C%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), S Li (<http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%2C%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), S Feng (<http://xueshu.baidu.com/s?wd=author%3A%28Songke%20Feng%29%20College%20of%20Mechanical%20and%20Electronic%20Engineering%2C%20Northwest%20A%26F%20University%2C%20Yangling%2C%20712100%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), H Zhong (<http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%2C%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>). Anisotropy of Seebeck coefficient in un-doped  $Mg_2Sn$  single crystal (<http://xueshu.baidu.com/s?wd=paperuri%3A%287552700954f4b4e5c79f632ac3f51e98%29&filter=sc long sign&tn=SE xueshusource 2kduw22v&sc vurl=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS002202481730177X&ie=utf-8&sc us=3249666271182752372>)

2Farticle%2Fpii%2FS0966979516305350&ie=utf-8&sc us=10767510399033775222). *Intermetallics* (<http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28678ec4b5192fb43a%29%20%E3%80%8AIntermetallics%E3%80%8B&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited>), 2017, 81 :26-31

[9] X Li (<http://xueshu.baidu.com/s?wd=author%3A%28Xin%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), S Li (<http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), S Feng (<http://xueshu.baidu.com/s?wd=author%3A%28Songke%20Feng%29%20College%20of%20Mechanical%20and%20Electronic%20Engineering%2C%20Northwest%20A%26F%20University%2C%20Yanling%2C%20712100%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>), H Zhong (<http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%27an%20710072%2C%20PR%20China&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson>). Probing anisotropy of Seebeck coefficient and enhanced thermoelectric performance of Mg<sub>2</sub>Si<sub>0.35</sub>Sn<sub>0.65</sub> single crystal (<http://xueshu.baidu.com/s?wd=paperuri%3A%28a0ad1793682fe79b90459eca373b09ab%29&filter=sc long sign&tn=SE xueshusource 2kduw22v&sc vurl=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS0925838817345450&ie=utf-8&sc us=7664847942188439255>). *Journal of Alloys & Compounds* (<http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28fd99da0853c3db3f%29%20%E3%80%8AJournal%20of%20Alloys%20%26%20Compounds%E3%80%8B&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited>), 2017 , 739

[10] 王洪强 (<http://xueshu.baidu.com/s?wd=authoruri%3A%28f8c6c9b1d631b8a6%29%20author%3A%28E7%8E%8B%E6%B4%AA%E5%BC%BA%29%20%E8%A5%BF%E5%8C%97%E5%B7%A5%E4%B8%9A%E5%A4%A7%E5%AD%A6%E5%87%9D%E5%9B%BA%E6%8A%80%E6%9C%AF%E5%9B%BD%E5%AE%B6%E9%87%8D%E7%82%B9%E5%AE%9E%9E%AA%8C%E5%AE%A4&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson&sort=sc cited>), 李双明 (<http://xueshu.baidu.com/usercenter/data/author?cmd=authoruri&wd=authoruri%3A%28bc8d9003d48db7fd%29%20author%3A%28E6%9D%8E%E5%8F%8C%E6%98%8E%29%20%E8%A5%BF%E5%8C%97%E5%B7%A5%E4%B8%9A%E5%A4%A7%E5%AD%A6%E5%87%9D%E5%9B%BA%E6%8A%80%E6%9C%AF%E5%9B%BD%E5%AE%B6%E9%87%8D%E7%82%B9%E5%AE%9E%9E%AA%8C%E5%AE%A4>), 常雪晴 (<http://xueshu.baidu.com/s?wd=authoruri%3A%28efd26513d4d5c88b%29%20author%3A%28E5%B8%B8%E9%9B%AA%E6%99%B4%29%20%E8%A5%BF%E5%8C%97%E5%B7%A5%E4%B8%9A%E5%A4%A7%E5%AD%A6%E5%87%9D%E5%9B%BA%E6%8A%80%E6%9C%AF%E5%9B%BD%E5%AE%B6%E9%87%8D%E7%82%B9%E5%AE%9E%9E%AA%8C%E5%AE%A4&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson&sort=sc cited>), 钟宏 (<http://xueshu.baidu.com/usercenter/data/author?cmd=authoruri&wd=authoruri%3A%2819bb452e85ea28f6%29%20author%3A%28E9%92%9F%E5%AE%8F%29%20%E8%A5%BF%E5%8C%97%E5%B7%A5%E4%B8%9A%E5%A4%A7%E5%AD%A6%E5%87%9D%E5%9B%BA%E6%8A%80%E6%9C%AF%E5%9B%BD%E5%AE%B6%E9%87%8D%E7%82%B9%E5%AE%9E%9E%AA%8C%E5%AE%A4>). TGZM效应下Co-87.9%Sb合金糊状区的组织演化及成分变化 (<http://xueshu.baidu.com/s?wd=paperuri%3A%28ba968b335b1e7325cd8d4d734ea5e02%29&filter=sc long sign&tn=SE xueshusource 2kduw22v&sc vurl=http%3A%2F%2Fkns.cnki.net%2FKCMS%2Fdetail%2Fdetail.aspx%3Ffilename%3DCOSE201710058%26dbname%3DCJFD%26dbcode%3DCJFQ&ie=utf-8&sc us=16259509901844001030>). *稀有金属材料与工程* (<http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28ac1064f8595c0239%29%20%E3%80%8AE7%A8%80%E6%9C%89%E9%87%91%E5%B1%9E%E6%9D%90%E6%96%99%E4%B8%8E%E5%B7%A5%E7%A8%8B%E3%80%8B&tn=SE baiduxueshu clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited>), 2017 (10) :3091-3097

- [11] Y Xue ([http://xueshu.baidu.com/s?wd=author%3A%28Yunlong%20Xue%29%20&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson](http://xueshu.baidu.com/s?wd=author%3A%28Yunlong%20Xue%29%20&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson)), S Li ([http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson](http://xueshu.baidu.com/s?wd=author%3A%28Shuangming%20Li%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson)), H Zhong ([http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson](http://xueshu.baidu.com/s?wd=author%3A%28Hong%20Zhong%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson)), K Li ([http://xueshu.baidu.com/s?wd=author%3A%28Kewei%20Li%29%20College%20of%20Material%20Science%20and%20Engineering%2C%20Taiyuan%20University%20of%20Technology%2C%20Taiyuan%20030024%2C%20China&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson](http://xueshu.baidu.com/s?wd=author%3A%28Kewei%20Li%29%20College%20of%20Material%20Science%20and%20Engineering%2C%20Taiyuan%20University%20of%20Technology%2C%20Taiyuan%20030024%2C%20China&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson)), H Fu ([http://xueshu.baidu.com/s?wd=author%3A%28Hengzhi%20Fu%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson](http://xueshu.baidu.com/s?wd=author%3A%28Hengzhi%20Fu%29%20State%20Key%20Laboratory%20of%20Solidification%20Processing%2C%20Northwestern%20Polytechnical%20University%2C%20Xi%E2%80%99an%20710072%2C%20China&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dperson)). Phase selections and mechanical properties of ternary Cr-Nb-Ti alloys under rapid solidification ([http://xueshu.baidu.com/s?wd=paperuri%3A%288311931c2ee81aa8cfc7e96adede3a2a%29&filter=sc long sign&tn=SE\\_xueshusource\\_2kduw22v&sc vurl=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS0925838816315559&ie=utf-8&sc us=8658911025174024173](http://xueshu.baidu.com/s?wd=paperuri%3A%288311931c2ee81aa8cfc7e96adede3a2a%29&filter=sc long sign&tn=SE_xueshusource_2kduw22v&sc vurl=http%3A%2F%2Fwww.sciencedirect.com%2Fscience%2Farticle%2Fpii%2FS0925838816315559&ie=utf-8&sc us=8658911025174024173)). *Journal of Alloys & Compounds* ([http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28fd99da0853c3db3f%29%20E3%80%8AJournal%20of%20Alloys%20%26%20Compounds%20E3%80%8B&tn=SE\\_baiduxueshu\\_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited](http://xueshu.baidu.com/usercenter/data/journal?cmd=jump&wd=journaluri%3A%28fd99da0853c3db3f%29%20E3%80%8AJournal%20of%20Alloys%20%26%20Compounds%20E3%80%8B&tn=SE_baiduxueshu_clgjeupa&ie=utf-8&sc f para=sc hilight%3Dpublish&sort=sc cited)), 2016, 684:403-411
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