# Yan-Qing Su

List of Publications by Year
in descending order

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|---|---|---|---|
| 145 papers | 2,597 citations | 201385 27 h-index | 288905 40 g-index |
| 145 all docs | 145 docs citations | 145 times ranked | 1196 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Microstructure and mechanical properties of Ti44Al6Nb1Cr2V alloy after gaseous hydrogen charging at 1373â€“1693ÂK. Rare Metals, 2023, 42, 664-671. | 3.6 | 1 |
| 2 | Manipulating internal flow units toward favorable plasticity in Zr-based bulk-metallic glasses by hydrogenation. Journal of Materials Science and Technology, 2022, 102, 36-45. | 5.6 | 16 |
| 3 | Significant enhancement of the corrosion performance of Ti-6Al-3Nb-2Zr-1Mo alloy via carbon addition in reducing acid environment. Materials Letters, 2022, 306, 130939. | 1.3 | 6 |
| 4 | Microstructure and mechanical properties of multi-phase reinforced Hf-Mo-Nb-Ti-Zr refractory high-entropy alloys. International Journal of Refractory Metals and Hard Materials, 2022, 102, 105723. | 1.7 | 20 |
| 5 | Effect of processing parameters on the microstructure and mechanical properties of TiAl/Ti2AlNb laminated composites. Journal of Materials Science and Technology, 2022, 109, 228-244. | 5.6 | 19 |
| 6 | On the solidification behaviors of AlCu5MnCdVA alloy in electron beam freeform fabrication: Microstructural evolution, Cu segregation and cracking resistance. Additive Manufacturing, 2022, 51, 102606. | 1.7 | 3 |
| 7 | Effect of growth rate on microstructure evolution in directionally solidified Tiâ€“47Al alloy. Heliyon, 2022, 8, e08704. | 1.4 | 1 |
| 8 | Corrosion behaviour of a wrought Ti-6Al-3Nb-2Zr-1Mo alloy in artificial seawater with various fluoride concentrations and pH values. Materials and Design, 2022, 214, 110416. | 3.3 | 17 |
| 9 | Enhanced strength and fracture characteristics of the TiAl/Ti2AlNb laminated composite. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 835, 142632. | 2.6 | 8 |
| 10 | In-situ study on Î³ phase transformation behaviour of Î³-TiAl alloys at different cooling rates. Progress in Natural Science: Materials International, 2022, 32, 345-357. | 1.8 | 9 |
| 11 | Tuning microstructure and improving the corrosion resistance of Ti-6Al-3Nb-2Zr-1Mo alloy using the electron beam freeform fabrication. Chemical Engineering Journal, 2022, 444, 136524. | 6.6 | 9 |
| 12 | Tailoring formation and proportion of strengthening phase in non-equiatomic CoCrFeNi high entropy alloy by alloying Si element. Intermetallics, 2022, 147, 107617. | 1.8 | 9 |
| 13 | Solidification behavior and microstructure evolution of Nb-Si-Mo alloy in ultrasonic field. International Journal of Refractory Metals and Hard Materials, 2022, 108, 105933. | 1.7 | 5 |
| 14 | Optimizing the microstructures and mechanical properties of Al-Cu-based alloys with large solidification intervals by coupling travelling magnetic fields with sequential solidification. Journal of Materials Science and Technology, 2021, 61, 100-113. | 5.6 | 18 |
| 15 | Annealed microstructure dependent corrosion behavior of Ti-6Al-3Nb-2Zr-1Mo alloy. Journal of Materials Science and Technology, 2021, 62, 234-248. | 5.6 | 68 |
| 16 | In-situ investigation of Î²/Î± transformation in Î²-solidifying Î³-TiAl alloys at different cooling rates. Materials Letters, 2021, 285, 129092. | 1.3 | 6 |
| 17 | The corrosion behavior of Ti-6Al-3Nb-2Zr-1Mo alloy: Effects of HCl concentration and temperature. Journal of Materials Science and Technology, 2021, 74, 143-154. | 5.6 | 43 |
| 18 | Optimizing microstructure, shrinkage defects and mechanical performance of ZL205A alloys via coupling travelling magnetic fields with unidirectional solidification. Journal of Materials Science and Technology, 2021, 74, 246-258. | 5.6 | 16 |

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|---|---|---|---|
| 19 | Eliminating shrinkage defects and improving mechanical performance of large thin-walled ZL205A alloy castings by coupling travelling magnetic fields with sequential solidification. Transactions of Nonferrous Metals Society of China, 2021, 31, 865-877. | 1.7 | 7 |
| 20 | Impact of laser scanning speed on microstructure and mechanical properties of Inconel 718 alloys by selective laser melting. China Foundry, 2021, 18, 170-179. | 0.5 | 8 |
| 21 | Influence of laser parameters on segregation of Nb during selective laser melting of Inconel 718. China Foundry, 2021, 18, 379-388. | 0.5 | 3 |
| 22 | The interface structure and its impact on the mechanical behavior of TiAl/Ti2AlNb laminated composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 827, 142095. | 2.6 | 14 |
| 23 | Design a novel TiAl/Ti2AlNb laminated composite with high toughness prepared by foil-foil metallurgy. Materials Letters, 2021, 303, 130463. | 1.3 | 8 |
| 24 | Effect of zirconium content on the microstructure and corrosion behavior of as-cast Ti-Al-Nb-Zr-Mo alloy. Journal of Materials Research and Technology, 2021, 15, 4896-4913. | 2.6 | 31 |
| 25 | Microstructure evolution, Cu segregation and tensile properties of CoCrFeNiCu high entropy alloy during directional solidification. Journal of Materials Science and Technology, 2020, 38, 19-27. | 5.6 | 85 |
| 26 | An as-cast high-entropy alloy with remarkable mechanical properties strengthened by nanometer precipitates. Nanoscale, 2020, 12, 3965-3976. | 2.8 | 49 |
| 27 | A Comparative Study on Microstructure and Mechanical Properties of Tiâ€43/46Alâ€“5Nbâ€“0.1B Alloys Modified by Mo. Advanced Engineering Materials, 2020, 22, 1901075. | 1.6 | 6 |
| 28 | In-situ observation microstructure evolution and growth kinetics of lamellar Î³ phases in Ti44Al alloy during heat treatment. Journal of Materials Research and Technology, 2020, 9, 12157-12166. | 2.6 | 5 |
| 29 | Microstructures and mechanical properties of Tiâ€“44Alâ€“5Nbâ€“3Crâ€“1.5Zrâ€“xMoâ€“yB alloys. Journal of Materials Research, 2020, 35, 2756-2764. | 1.2 | 4 |
| 30 | Thermal deformation behavior of Î³-TiAl based alloy by plasma hydrogenation. International Journal of Hydrogen Energy, 2020, 45, 34214-34226. | 3.8 | 6 |
| 31 | Microstructural evolution of Al-Cu-Li alloys with different Li contents by coupling of near-rapid solidification and two-stage homogenization treatment. China Foundry, 2020, 17, 190-197. | 0.5 | 10 |
| 32 | Effect of melt hydrogenation on microstructure evolution and tensile properties of (TiBâ€¯+â€¯TiC)/Ti-6Al-4V composites. Journal of Materials Research and Technology, 2020, 9, 6343-6351. | 2.6 | 10 |
| 33 | Effect of hydrogen on interfacial reaction between Ti-6Al-4V alloy melt and graphite mold. Journal of Materials Research and Technology, 2020, 9, 6933-6939. | 2.6 | 5 |
| 34 | Microstructure and mechanical properties of CoCrFeNiW high entropy alloys reinforced by Î¼ phase particles. Journal of Alloys and Compounds, 2020, 843, 155997. | 2.8 | 49 |
| 35 | The growth behavior of columnar grains in a TiAl alloy during directional induction heat treatments. CrystEngComm, 2020, 22, 1188-1196. | 1.3 | 8 |
| 36 | Impact of hydrogen microalloying on the mechanical behavior of Zr-bearing metallic glasses: A molecular dynamics study. Journal of Materials Science and Technology, 2020, 45, 198-206. | 5.6 | 16 |

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|---|---|---|---|
| 37 | Study on dispersion of Ti2AlC particle and formation of columnar crystal with different solidification rates during CCDS TiAl-based composite. Journal of Alloys and Compounds, 2020, 832, 154893. | 2.8 | 5 |
| 38 | Microstructure and microhardness of Ti-48Al alloy prepared by rapid solidification. China Foundry, 2020, 17, 429-434. | 0.5 | 5 |
| 39 | Microstructures and phase transformation in directionally solidified TiAl-Nb alloys. China Foundry, 2020, 17, 402-408. | 0.5 | 0 |
| 40 | Microstructure and mechanical properties of NbZrTi and NbHfZrTi alloys. Rare Metals, 2019, 38, 840-847. | 3.6 | 22 |
| 41 | Improving microstructure and mechanical properties of Ti43Al5Nb0.1B alloy by addition of Fe. Rare Metals, 2019, 38, 1024-1032. | 3.6 | 11 |
| 42 | Microstructure, tensile properties and creep behavior of high-Al TiAlNb alloy using electromagnetic cold crucible continuous casting. Journal of Alloys and Compounds, 2019, 801, 166-174. | 2.8 | 11 |
| 43 | A novel method to prepare columnar grains of TiAl alloys by controlling induction heating. International Communications in Heat and Mass Transfer, 2019, 108, 104315. | 2.9 | 17 |
| 44 | Formation of Ti2AlN and TiB and its effect on mechanical properties of Ti46Al4Nb1Mo alloy by adding BN particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 756, 161-171. | 2.6 | 16 |
| 45 | Investigation of shear transformation zone and ductility of Zr-based bulk metallic glass after plasma-assisted hydrogenation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2019, 759, 105-111. | 2.6 | 21 |
| 46 | Hot-deformation behaviour and hot-processing map of melt-hydrogenated Ti 6Al 4V/(TiB+TiC). International Journal of Hydrogen Energy, 2019, 44, 8641-8649. | 3.8 | 18 |
| 47 | Boride Formation, Microstructure Evolution, and Mechanical Properties of Ti42Al6Nb2.6C0.8Ta Alloyed by Boron. Advanced Engineering Materials, 2019, 21, 1800934. | 1.6 | 3 |
| 48 | Microstructure and Mechanical Properties of Bioâ€Inspired Ti/Al/Alâ€C<sub>f</sub> Multilayered Composites. Advanced Engineering Materials, 2019, 21, 1800722. | 1.6 | 2 |
| 49 | Microstructures and properties of Nbâ€“Si-based alloys with B addition. Rare Metals, 2019, , 1. | 3.6 | 0 |
| 50 | High-throughput analysis of Al and Nb effects on mechanical behaviour of TiAl alloys using electromagnetic cold crucible continuous casting. Journal of Alloys and Compounds, 2019, 775, 124-131. | 2.8 | 9 |
| 51 | Strengthening FCC-CoCrFeMnNi high entropy alloys by Mo addition. Journal of Materials Science and Technology, 2019, 35, 578-583. | 5.6 | 126 |
| 52 | Effects of V and B, Y additions on the microstructure and creep behaviour of high-Nb TiAl alloys. Journal of Alloys and Compounds, 2018, 747, 640-647. | 2.8 | 33 |
| 53 | Macro/microstructure evolution and mechanical properties of Ti33.3Al alloys by adding WC particles. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 725, 171-180. | 2.6 | 8 |
| 54 | Effects of hydrogen on the interfacial reaction between Ti 6Al 4V alloy melt and Al2O3 ceramic shell. International Journal of Hydrogen Energy, 2018, 43, 5225-5230. | 3.8 | 3 |

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| 55 | Creep Behavior of Highâ€Nb TiAl Alloy at 800â€“900â€‰Â°C by Directional Solidification. Advanced Engineering Materials, 2018, 20, 1700734. | 1.6 | 6 |
| 56 | Microstructure control and creep behavior of Ti-47Al-6Nb-0.1C alloy by directional solidification. Intermetallics, 2018, 94, 152-159. | 1.8 | 23 |
| 57 | Hydrogen induced microstructure evolution of titanium matrix composites. International Journal of Hydrogen Energy, 2018, 43, 9838-9847. | 3.8 | 16 |
| 58 | Brittleâ€“ductile transition during creep in nearly and fully lamellar high-Nb TiAl alloys. Intermetallics, 2018, 93, 47-54. | 1.8 | 38 |
| 59 | Positive effect of hydrogen on interface of in situ synthesized Ti-6Al-4V matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 711, 12-21. | 2.6 | 8 |
| 60 | Effect of Zr on microstructure and mechanical properties of binary TiAl alloys. Transactions of Nonferrous Metals Society of China, 2018, 28, 1724-1734. | 1.7 | 9 |
| 61 | Microstructure and mechanical properties of Ti43Al6Nb alloys with different zirconium contents. Rare Metals, 2018, , 1. | 3.6 | 3 |
| 62 | Microstructure evolution and mechanical properties of TiAl binary alloys added with SiC fibers. Intermetallics, 2018, 98, 69-78. | 1.8 | 26 |
| 63 | Microstructure, Mechanical Properties, and Crack Propagation Behavior in High-Nb TiAl Alloys by Directional Solidification. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2018, 49, 4555-4564. | 1.1 | 39 |
| 64 | Effect of a Traveling Magnetic Field on Micropore Formation in Al-Cu Alloys. Metals, 2018, 8, 448. | 1.0 | 4 |
| 65 | Effects of grain size and precipitated phases on mechanical properties in TiAl gradient materials. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2018, 731, 634-641. | 2.6 | 11 |
| 66 | Optimization of electromagnetic energy in cold crucible used for directional solidification of TiAl alloy. Energy, 2018, 161, 143-155. | 4.5 | 13 |
| 67 | Effect of Î²-phase stabilizing elements and high temperature (1373â€“1693ÂK) on hydrogen absorption in TiAl alloys. International Journal of Hydrogen Energy, 2017, 42, 86-95. | 3.8 | 17 |
| 68 | Influence of high-temperature hydrogen charging on microstructure and hot deformability of binary TiAl alloys. Journal of Alloys and Compounds, 2017, 701, 399-407. | 2.8 | 9 |
| 69 | Hydrogen induced softening and hardening for hot workability of (TiBÂ+ÂTiC)/Ti-6Al-4V composites. International Journal of Hydrogen Energy, 2017, 42, 3380-3388. | 3.8 | 16 |
| 70 | High temperature deformation behavior of melt hydrogenated (TiB + TiC)/Ti-6Al-4V composites. Materials and Design, 2017, 121, 335-344. | 3.3 | 33 |
| 71 | A novel method to directional solidification of TiAlNb alloys by mixing binary TiAl ingot and Nb wire. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 687, 181-192. | 2.6 | 16 |
| 72 | Continuous Casting of TiAlNb Alloys with Different Velocities by Mixing Binary TiAl Ingot and Nb Wire. Advanced Engineering Materials, 2017, 19, 1700058. | 1.6 | 0 |

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| 73 | Characterization of p-type multicrystalline silicon prepared by cold crucible continuous melting and directional solidification. Materials Science in Semiconductor Processing, 2017, 68, 62-67. | 1.9 | 4 |
| 74 | Microstructure modification and mechanical performances enhancement of Ti44Al6Nb1Cr alloy by ultrasound treatment. Journal of Alloys and Compounds, 2017, 710, 409-417. | 2.8 | 25 |
| 75 | Hydrogen-induced softening of Tiâ€“44Alâ€“6Nbâ€“1Crâ€“2V alloy during hot deformation. International Journal of Hydrogen Energy, 2017, 42, 8329-8337. | 3.8 | 19 |
| 76 | Effects of hydrogen on the nanomechanical properties of a bulk metallic glass during nanoindentation. International Journal of Hydrogen Energy, 2017, 42, 25436-25445. | 3.8 | 14 |
| 77 | Microstructures and mechanical properties of melt hydrogenated Nb-Si based alloy. International Journal of Hydrogen Energy, 2017, 42, 26417-26422. | 3.8 | 4 |
| 78 | Numerical Research on Magnetic Field, Temperature Field and Flow Field During Melting and Directionally Solidifying TiAl Alloys by Electromagnetic Cold Crucible. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2017, 48, 3345-3358. | 1.0 | 11 |
| 79 | Hot deformation behavior and dynamic recrystallization of melt hydrogenated Ti-6Al-4V alloy. Journal of Alloys and Compounds, 2017, 728, 709-718. | 2.8 | 32 |
| 80 | Removal of metal impurities in metallurgical grade silicon by cold crucible continuous melting and directional solidification. Separation and Purification Technology, 2017, 188, 67-72. | 3.9 | 23 |
| 81 | Hydrogen-induced amorphization of Zr-Cu-Ni-Al alloy. China Foundry, 2017, 14, 145-150. | 0.5 | 0 |
| 82 | Experimental and numerical investigation on mass transfer induced by electromagnetic field in cold crucible used for directional solidification. International Journal of Heat and Mass Transfer, 2017, 114, 297-306. | 2.5 | 29 |
| 83 | Effect of hydrogen addition on the mechanical properties of a bulk metallic glass. Journal of Alloys and Compounds, 2017, 695, 3183-3190. | 2.8 | 19 |
| 84 | Mass transfer behaviors of oxygen during cold crucible continuous casting silicon. International Journal of Heat and Mass Transfer, 2016, 100, 428-432. | 2.5 | 9 |
| 85 | Microstructures, micro-segregation and solidification path of directionally solidified Ti-45Al-5Nb alloy. China Foundry, 2016, 13, 107-113. | 0.5 | 11 |
| 86 | The hydrogen absorption behavior of high Nb contained titanium aluminides under high pressure and temperature. International Journal of Hydrogen Energy, 2016, 41, 13254-13260. | 3.8 | 13 |
| 87 | Deformation behavior and microstructural evolution of hydrogenated Ti44Al6Nb alloy during thermo-compression at 1373â€“1523 K. Materials and Design, 2016, 108, 259-268. | 3.3 | 28 |
| 88 | Effect of growth rate on microstructures and microhardness in directionally solidified Tiâ€“47Alâ€“1.0Wâ€“0.5Si alloy. Journal of Materials Research, 2016, 31, 618-626. | 1.2 | 3 |
| 89 | Lamellar orientation control of Tiâ€“47Alâ€“0.5Wâ€“0.5Si by directional solidification using Î² seeding technique. Intermetallics, 2016, 73, 1-4. | 1.8 | 8 |
| 90 | Influence of thermal stabilization treatment on microstructure evolution of the mushy zone and subsequent directional solidification in Ti-43Al-3Si alloy. Materials and Design, 2016, 97, 392-399. | 3.3 | 14 |

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| 91 | Investigation of macro/microstructure evolution and mechanical properties of directionally solidified high-Nb TiAl-based alloy. Materials and Design, 2016, 89, 492-506. | 3.3 | 53 |
| 92 | Effect of heat treatment on microstructure and mechanical properties of cast and directionally solidified high-Nb contained TiAl-based alloys. Journal of Materials Research, 2015, 30, 3331-3342. | 1.2 | 5 |
| 93 | Continued growth controlling of the non-preferred primary phase for the parallel lamellar structure in directionally solidified Tiâ€“50Alâ€“4Nb alloy. Journal of Alloys and Compounds, 2015, 632, 152-160. | 2.8 | 14 |
| 94 | Microstructure and room temperature tensile property of as-cast Ti44Al6Nb1.0Cr2.0V alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 1097-1105. | 1.7 | 6 |
| 95 | Deformation behavior and microstructural evolution of directionally solidified TiAlNb-based alloy during thermo-compression at 1373â€“1573K. Materials and Design, 2015, 84, 118-132. | 3.3 | 57 |
| 96 | Effect of solidification parameters on microstructural characteristics and mechanical properties of directionally solidified binary TiAl alloy. Journal of Alloys and Compounds, 2015, 650, 8-14. | 2.8 | 20 |
| 97 | Effect of cyclic heat treatment on microstructures and mechanical properties of directionally solidified Tiâ€“46Alâ€“6Nb alloy. Transactions of Nonferrous Metals Society of China, 2015, 25, 1872-1880. | 1.7 | 13 |
| 98 | Effect of power on microstructure and mechanical properties of Ti44Al6Nb1.0Cr2.0V0.15Y0.1B alloy prepared by cold crucible directional solidification. Materials & Design, 2015, 67, 390-397. | 5.1 | 27 |
| 99 | Microstructure evolution and mechanical properties of directionally-solidified TiAlNb alloy in different temperature gradients. Journal of Alloys and Compounds, 2015, 648, 667-675. | 2.8 | 33 |
| 100 | Effect of growth rate and diameter on microstructure and hardness of directionally solidified Tiâ€“46Alâ€“8Nb alloy. Transactions of Nonferrous Metals Society of China, 2014, 24, 4044-4052. | 1.7 | 6 |
| 101 | Facetedâ€“nonfaceted growth transition and 3-D morphological evolution of primary Al<sub>6</sub>Mn microcrystals in directionally solidified Alâ€“3 at.% Mn alloy. Journal of Materials Research, 2014, 29, 1256-1263. | 1.2 | 18 |
| 102 | The influence of melt hydrogenation on Ti600 alloy. International Journal of Hydrogen Energy, 2014, 39, 6089-6094. | 3.8 | 9 |
| 103 | Electrical resistivity distribution of silicon ingot grown by cold crucible continuous melting and directional solidification. Materials Science in Semiconductor Processing, 2014, 23, 14-19. | 1.9 | 7 |
| 104 | Microstructure control and mechanical properties of Ti44Al6Nb1.0Cr2.0V alloy by cold crucible directional solidification. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 614, 67-74. | 2.6 | 40 |
| 105 | Local melting/solidification during peritectic solidification in a steep temperature gradient: analysis of a directionally solidified Alâ€“25at%Ni. Applied Physics A: Materials Science and Processing, 2014, 116, 1821-1831. | 1.1 | 9 |
| 106 | Influence of initial solidâ€“liquid interface morphology on further microstructure evolution during directional solidification. Applied Physics A: Materials Science and Processing, 2013, 110, 443-451. | 1.1 | 6 |
| 107 | Characterization of microstructural length scales in directionally solidified Snâ€“36%Ni peritectic alloy. Transactions of Nonferrous Metals Society of China, 2013, 23, 2446-2453. | 1.7 | 2 |
| 108 | Uniformity analysis of magnetic field in an electromagnetic cold crucible used for directional solidification. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 997-1008. | 0.5 | 4 |

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|---|---|---|---|
| 109 | Flow field and its effect on microstructure in cold crucible directional solidification of Nb containing TiAl alloy. Journal of Materials Processing Technology, 2013, 213, 1355-1363. | 3.1 | 21 |
| 110 | A lateral remelting phenomenon of the primary phase below the temperature of peritectic reaction in directionally solidified Cuâ€“Ge alloys. Journal of Materials Research, 2013, 28, 3261-3269. | 1.2 | 11 |
| 111 | Two-phase separated growth and peritectic reaction during directional solidification of Cuâ€“Ge peritectic alloys. Journal of Materials Research, 2013, 28, 1372-1377. | 1.2 | 5 |
| 112 | Characterization of hydrogen-induced structural changes in Zr-based bulk metallic glasses using positron annihilation spectroscopy. Journal of Materials Research, 2012, 27, 2587-2592. | 1.2 | 4 |
| 113 | Fabrication of wavy Î³-TiAl based sheet with foil metallurgy. Transactions of Nonferrous Metals Society of China, 2012, 22, 72-77. | 1.7 | 7 |
| 114 | Temperature field calculation on cold crucible continuous melting and directional solidifying Ti50Al alloys. Transactions of Nonferrous Metals Society of China, 2012, 22, 647-653. | 1.7 | 9 |
| 115 | Microstructure, microsegregation pattern and the formation of B2 phase in directionally solidified Tiâ€“46Alâ€“8Nb alloy. Journal of Alloys and Compounds, 2012, 541, 275-282. | 2.8 | 34 |
| 116 | Lamellar orientation and growth direction of Î± phase in directionally solidified Ti-46Al-0.5W-0.5Si alloy. Intermetallics, 2012, 27, 38-45. | 1.8 | 25 |
| 117 | Morphological characteristics of triple junction region and process of the peritectic reaction during directional solidification of Cuâ€“Ge alloys. Journal of Alloys and Compounds, 2012, 539, 44-49. | 2.8 | 8 |
| 118 | Microstructure and microsegregation in directionally solidified Tiâ€“46Alâ€“8Nb alloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 1342-1349. | 1.7 | 11 |
| 119 | Enhanced plasticity in Zr-based bulk metallic glasses by hydrogen. International Journal of Hydrogen Energy, 2012, 37, 14697-14701. | 3.8 | 42 |
| 120 | Bulk metallic glass formation: The positive effect of hydrogen. Journal of Non-Crystalline Solids, 2012, 358, 2606-2611. | 1.5 | 17 |
| 121 | Secondary dendrite arm migration caused by temperature gradient zone melting during peritectic solidification. Acta Materialia, 2012, 60, 2679-2688. | 3.8 | 41 |
| 122 | Effect of growth rate on microstructure parameters and microhardness in directionally solidified Tiâ€“49Al alloy. Materials & Design, 2012, 34, 552-558. | 5.1 | 39 |
| 123 | Deoxidation of bulk metallic glasses by hydrogen arc melting. Materials Letters, 2012, 83, 1-3. | 1.3 | 12 |
| 124 | First Phase Selection in Solid Ti/Al Diffusion Couple. Rare Metal Materials and Engineering, 2011, 40, 753-756. | 0.8 | 21 |
| 125 | Effect of parameters on the grain growth of silicon ingots prepared by electromagnetic cold crucible continuous casting. Journal of Crystal Growth, 2011, 332, 68-74. | 0.7 | 11 |
| 126 | Microstructure evolution in directionally solidified Tiâ€“(50, 52)at%Al alloys. Intermetallics, 2011, 19, 175-181. | 1.8 | 20 |

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| 127 | Effect of traveling magnetic field on gas porosity during solidification. Transactions of Nonferrous Metals Society of China, 2011, 21, 1981-1985. | 1.7 | 4 |
| 128 | Dependency of microstructure parameters and microhardness on the temperature gradient for directionally solidified Tiâ€“49Al alloy. Materials Chemistry and Physics, 2011, 130, 1232-1238. | 2.0 | 27 |
| 129 | Directional solidification of Tiâ€“49 at.%Al alloy. Applied Physics A: Materials Science and Processing, 2011, 105, 239-248. | 1.1 | 16 |
| 130 | Investigation of melt hydrogenation on the microstructure and deformation behavior of Tiâ€“6Alâ€“4V alloy. International Journal of Hydrogen Energy, 2011, 36, 1027-1036. | 3.8 | 29 |
| 131 | Influence of thermal stabilization on the solute concentration of the melt in directional solidification. Journal of Crystal Growth, 2010, 312, 3658-3664. | 0.7 | 25 |
| 132 | Hydrogen solubility in molten TiAl alloys. International Journal of Hydrogen Energy, 2010, 35, 8008-8013. | 3.8 | 23 |
| 133 | Deoxidation of Tiâ€“Al intermetallics via hydrogen treatment. International Journal of Hydrogen Energy, 2010, 35, 9214-9217. | 3.8 | 17 |
| 134 | Effect of hydrogen on hot deformation behaviors of TiAl alloys. International Journal of Hydrogen Energy, 2010, 35, 13322-13328. | 3.8 | 35 |
| 135 | EFFECT OF <font>HfO</font><sub>2</sub>-CODOPING CONCENTRATION ON THE OPTICAL PROPERTIES OF <font>Er</font><sup>3+</sup>-DOPED <font>LiNbO</font><sub>3</sub>. Modern Physics Letters B, 2010, 24, 495-502. | 1.0 | 3 |
| 136 | Dependency of microhardness on solidification processing parameters and microstructure characteristics in the directionally solidified Tiâ€“46Alâ€“0.5Wâ€“0.5Si alloy. Journal of Alloys and Compounds, 2010, 504, 60-64. | 2.8 | 49 |
| 137 | The microstructure parameters and microhardness of directionally solidified Tiâ€“43Alâ€“3Si alloy. Journal of Alloys and Compounds, 2010, 506, 593-599. | 2.8 | 50 |
| 138 | Effect of electromagnetic force on melt induced by traveling magnetic field. Transactions of Nonferrous Metals Society of China, 2010, 20, 662-667. | 1.7 | 10 |
| 139 | EFFECT OF <font>Li/Nb</font> RATIO ON GROWTH AND SPECTROMETRIC CHARACTERIZATION OF <font>Hf</font>:<font>Fe</font>:<font>LiNbO</font><sub>3</sub> CRYSTALS. Modern Physics Letters B, 2009, 23, 1557-1565. | 1.0 | 3 |
| 140 | JUDDâ€“OFELT THEORY ANALYSIS AND SPECTROSCOPIC PROPERTIES OF Ho:LiNbO3. Modern Physics Letters B, 2009, 23, 3235-3242. | 1.0 | 1 |
| 141 | Deoxidation of Titanium alloy using hydrogen. International Journal of Hydrogen Energy, 2009, 34, 8958-8963. | 3.8 | 53 |
| 142 | Effects of hydrogenation on ambient deformation behaviors of Ti-45Al alloy. Transactions of Nonferrous Metals Society of China, 2009, 19, s403-s408. | 1.7 | 4 |
| 143 | Formation of titanium hydride in Tiâ€“6Alâ€“4V alloy. Journal of Alloys and Compounds, 2006, 425, 140-144. | 2.8 | 63 |
| 144 | Microstructure selection during the directionally peritectic solidification of Tiâ€“Al binary system. Intermetallics, 2005, 13, 267-274. | 1.8 | 56 |

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| 145 | Effects of Heating Power on Microstructure Evolution and Tensile Properties at Elevated Temperature by Directional Solidification for Ti2AlC/TiAl Composites. Advanced Engineering Materials, 0, , 2100736. | 1.6 | 1 |