

# Benedikt Bochtler

## List of Publications by Citations

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19  
papers

245  
citations

11  
h-index

15  
g-index

20  
ext. papers

326  
ext. citations

5.9  
avg, IF

3.49  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 19 | Thermo-physical characterization of the Fe <sub>67</sub> Mo <sub>6</sub> Ni <sub>3.5</sub> Cr <sub>3.5</sub> P <sub>12</sub> C <sub>5.5</sub> B <sub>2.5</sub> bulk metallic glass forming alloy. <i>Acta Materialia</i> , <b>2016</b> , 118, 129-139                             | 8.4 | 40        |
| 18 | The kinetic fragility of Pt-P- and Ni-P-based bulk glass-forming liquids and its thermodynamic and structural signature. <i>Acta Materialia</i> , <b>2017</b> , 132, 118-127  | 8.4 | 30        |
| 17 | On the high glass-forming ability of Pt-Cu-Ni/Co-P-based liquids. <i>Acta Materialia</i> , <b>2017</b> , 141, 109-119   | 8.4 | 25        |
| 16 | On the bulk glass formation in the ternary Pd-Ni-S system. <i>Acta Materialia</i> , <b>2018</b> , 158, 13-22  | 8.4 | 20        |
| 15 | Consolidation of amorphous powder by thermoplastic forming and subsequent mechanical testing. <i>Materials and Design</i> , <b>2018</b> , 140, 188-195  | 8.1 | 20        |
| 14 | Thermoplastic forming of additively manufactured Zr-based bulk metallic glass: A processing route for surface finishing of complex structures. <i>Materials and Design</i> , <b>2021</b> , 198, 109368  | 8.1 | 14        |
| 13 | Sulfur-bearing metallic glasses: A new family of bulk glass-forming alloys. <i>Scripta Materialia</i> , <b>2018</b> , 146, 73-76  | 5.6 | 14        |
| 12 | Development and characterization of titanium-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 790, 337-346   | 5.7 | 13        |
| 11 | Thermodynamic and kinetic studies of the Cu <sub>2</sub> ZrAl(Bi) bulk metallic glass-forming system. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 844, 156126  | 5.7 | 11        |
| 10 | Signatures of structural differences in Pt-B- and Pd-B-based bulk glass-forming liquids. <i>Communications Physics</i> , <b>2019</b> , 2,   | 5.4 | 11        |
| 9  | Indications for a fragile-to-strong transition in the high- and low-temperature viscosity of the Fe <sub>43</sub> Cr <sub>16</sub> Mo <sub>16</sub> C <sub>15</sub> B <sub>10</sub> bulk metallic glass-forming alloy. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 261902 | 3.4 | 11        |
| 8  | Equilibrium viscosity and structural change in the Cu <sub>47.5</sub> Zr <sub>45.1</sub> Al <sub>7.4</sub> bulk glass-forming liquid. <i>Acta Materialia</i> , <b>2020</b> , 184, 69-78   | 8.4 | 11        |
| 7  | Thermoplastic forming of amorphous metals. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 244002  | 1.8 | 7         |
| 6  | High-temperature rotating cylinder rheometer for studying metallic glass forming liquids. <i>Review of Scientific Instruments</i> , <b>2018</b> , 89, 113904  | 1.7 | 6         |
| 5  | Wave-Vector Dependence of the Dynamics in Supercooled Metallic Liquids. <i>Physical Review Letters</i> , <b>2020</b> , 125, 055701  | 7.4 | 4         |
| 4  | Effect of sulfur on the glass-forming ability, phase transformation, and thermal stability of Cu-Zr-Al bulk metallic glass. <i>Acta Materialia</i> , <b>2021</b> , 212, 116923  | 8.4 | 3         |
| 3  | Bulk metallic glass formation in the (Ti,Zr)-(Ni,Cu)-S system. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 264003  | 1.8 | 2         |

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|---|---|-----|---|
| 2 | On the thermodynamics and its connection to structure in the Pt-Pd-Cu-Ni-P bulk metallic glass forming system. <i>Acta Materialia</i> , <b>2021</b> , 220, 117300 | 8.4 | 2 |
| 1 | Impact of Sulfur on the melt dynamics of glass forming Ti75Ni25-xSx. <i>Applied Physics Letters</i> , <b>2020</b> , 117, 013702                                   | 3.4 | 1 |