

Benedikt Bochtler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Effect of sulfur on the glass-forming ability, phase transformation, and thermal stability of Cu-Zr-Al bulk metallic glass. <i>Acta Materialia</i> , 2021 , 212, 116923	8.4	3
18	Thermoplastic forming of additively manufactured Zr-based bulk metallic glass: A processing route for surface finishing of complex structures. <i>Materials and Design</i> , 2021 , 198, 109368	8.1	14
17	On the thermodynamics and its connection to structure in the Pt-Pd-Cu-Ni-P bulk metallic glass forming system. <i>Acta Materialia</i> , 2021 , 220, 117300	8.4	2
16	Thermodynamic and kinetic studies of the Cu _{47.5} Zr _{45.1} Al _{7.4} (Sn) bulk metallic glass-forming system. <i>Journal of Alloys and Compounds</i> , 2020 , 844, 156126	5.7	11
15	Bulk metallic glass formation in the (Ti,Zr)-(Ni,Cu)-S system. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 264003	1.8	2
14	Impact of Sulfur on the melt dynamics of glass forming Ti ₇₅ Ni _{25-x} S _x . <i>Applied Physics Letters</i> , 2020 , 117, 013702	3.4	1
13	Thermoplastic forming of amorphous metals. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 244002	1.8	7
12	Equilibrium viscosity and structural change in the Cu _{47.5} Zr _{45.1} Al _{7.4} bulk glass-forming liquid. <i>Acta Materialia</i> , 2020 , 184, 69-78	8.4	11
11	Wave-Vector Dependence of the Dynamics in Supercooled Metallic Liquids. <i>Physical Review Letters</i> , 2020 , 125, 055701	7.4	4
10	Development and characterization of titanium-based bulk metallic glasses. <i>Journal of Alloys and Compounds</i> , 2019 , 790, 337-346	5.7	13
9	Signatures of structural differences in Pt _B - and Pd _B -based bulk glass-forming liquids. <i>Communications Physics</i> , 2019 , 2,	5.4	11
8	On the bulk glass formation in the ternary Pd-Ni-S system. <i>Acta Materialia</i> , 2018 , 158, 13-22	8.4	20
7	Consolidation of amorphous powder by thermoplastic forming and subsequent mechanical testing. <i>Materials and Design</i> , 2018 , 140, 188-195	8.1	20
6	Sulfur-bearing metallic glasses: A new family of bulk glass-forming alloys. <i>Scripta Materialia</i> , 2018 , 146, 73-76	5.6	14
5	High-temperature rotating cylinder rheometer for studying metallic glass forming liquids. <i>Review of Scientific Instruments</i> , 2018 , 89, 113904	1.7	6
4	The kinetic fragility of Pt-P- and Ni-P-based bulk glass-forming liquids and its thermodynamic and structural signature. <i>Acta Materialia</i> , 2017 , 132, 118-127	8.4	30
3	On the high glass-forming ability of Pt-Cu-Ni/Co-P-based liquids. <i>Acta Materialia</i> , 2017 , 141, 109-119	8.4	25

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| 2 | Indications for a fragile-to-strong transition in the high- and low-temperature viscosity of the Fe ₄₃ Cr ₁₆ Mo ₁₆ C ₁₅ B ₁₀ bulk metallic glass-forming alloy. <i>Applied Physics Letters</i> , 2017 , 111, 261902 | 3.4 | 11 |
| 1 | Thermo-physical characterization of the Fe ₆₇ Mo ₆ Ni _{3.5} Cr _{3.5} P ₁₂ C _{5.5} B _{2.5} bulk metallic glass forming alloy. <i>Acta Materialia</i> , 2016 , 118, 129-139 | 8.4 | 40 |