

Florian C Spieckermann

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.

47
papers

486
citations

12
h-index

20
g-index

51
ext. papers

624
ext. citations

4.5
avg, IF

3.58
L-index

#	Paper	IF	Citations
47	Structure-dynamics relationships in cryogenically deformed bulk metallic glass.. <i>Nature Communications</i> , 2022 , 13, 127	17.4	3
46	Maximizing the degree of rejuvenation in metallic glasses. <i>Scripta Materialia</i> , 2022 , 212, 114575	5.6	2
45	Morphology and properties of foamed high crystallinity PEEK prepared by high temperature thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 51423	2.9	2
44	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. <i>Corrosion Science</i> , 2021 , 193, 109880	6.8	0
43	From elastic excitations to macroscopic plasticity in metallic glasses. <i>Applied Materials Today</i> , 2021 , 22, 100958	6.6	4
42	Effect of high pressure torsion on crystallization and magnetic properties of Fe _{73.9} Cu ₁ Nb ₃ Si _{15.5} B _{6.6} . <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 525, 167679	2.8	3
41	Composite of medium entropy alloys synthesized using spark plasma sintering. <i>Scripta Materialia</i> , 2021 , 191, 46-51	5.6	6
40	Deformation-Mode-Sensitive Behavior of CuZr-Based Bulk Metallic Glasses Under Dynamic Loading. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2021 , 52, 8-13	2.3	0
39	X-ray Diffraction Computed Nanotomography Applied to Solve the Structure of Hierarchically Phase-Separated Metallic Glass. <i>ACS Nano</i> , 2021 , 15, 2386-2398	16.7	2
38	In Situ Synchrotron X-Ray Diffraction during High-Pressure Torsion Deformation of Ni and NiTi. <i>Advanced Engineering Materials</i> , 2021 , 23, 2100159	3.5	0
37	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. <i>Scientific Reports</i> , 2020 , 10, 4575	4.9	1
36	Ageing Behaviour of Al-Mg-Si Alloys After Cryogenic and Room Temperature Deformation. <i>Materials</i> , 2020 , 13,	3.5	2
35	Outstanding strengthening behavior and dynamic mechanical properties of in-situ Al ₁₃ Al ₃ Ni composites by Cu addition. <i>Composites Part B: Engineering</i> , 2020 , 189, 107891	10	21
34	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
33	Room temperature recovery of cryogenically deformed aluminium alloys. <i>Materials and Design</i> , 2020 , 193, 108819	8.1	13
32	Mechanism of low temperature deformation in aluminium alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020 , 795, 139935	5.3	25
31	The influence of crystallization conditions on the macromolecular structure and strength of Epolypropylene. <i>Thermochimica Acta</i> , 2019 , 677, 131-138	2.9	6

30	In-Situ Synchrotron Profile Analysis after High-Pressure Torsion Deformation. <i>Crystals</i> , 2019 , 9, 232	2.3	8
29	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in Co _{0.8} Cr _{0.2} Be _{0.8} Ni _{1.2} Nb high-entropy composites. <i>Journal of Materials Research</i> , 2019 , 34, 2672-2682	2.5	4
28	Fast and direct determination of fragility in metallic glasses using chip calorimetry. <i>Heliyon</i> , 2019 , 5, e01334	3.4	5
27	Characterization of strain bursts in high density polyethylene by means of a novel nano creep test. <i>International Journal of Plasticity</i> , 2019 , 116, 297-313	7.6	4
26	Coiled artificial muscles based on UHMWPE with large muscle stroke. <i>Materials Today Communications</i> , 2019 , 21, 100688	2.5	1
25	Reversing and non-reversing effects of PEEK-HA composites on tuning cooling rate during crystallization. <i>Journal of Polymer Research</i> , 2019 , 26, 1	2.7	4
24	Annealing-assisted high-pressure torsion in Zr ₅₅ Cu ₃₀ Al ₁₀ Ni ₅ metallic glass. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1323-1333	5.7	10
23	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. <i>International Journal of Plasticity</i> , 2018 , 105, 225-238	7.6	33
22	Microstructures, Martensitic Transformation, and Mechanical Behavior of Rapidly Solidified Ti-Ni-Hf and Ti-Ni-Si Shape Memory Alloys. <i>Journal of Materials Engineering and Performance</i> , 2018 , 27, 1005-1015	1.6	3
21	Dual self-organised shear banding behaviours and enhanced ductility in phase separating Zr-based bulk metallic glasses. <i>Philosophical Magazine</i> , 2018 , 98, 1744-1764	1.6	10
20	Rapid and partial crystallization to design ductile CuZr-based bulk metallic glass composites. <i>Materials and Design</i> , 2018 , 139, 132-140	8.1	36
19	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. <i>Scripta Materialia</i> , 2017 , 137, 127-131	5.6	10
18	Atomic origin for rejuvenation of a Zr-based metallic glass at cryogenic temperature. <i>Journal of Alloys and Compounds</i> , 2017 , 718, 254-259	5.7	16
17	Dislocation Movement Induced by Molecular Relaxations in Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 6362-6368	5.5	18
16	Structural modifications in sub-T _g annealed CuZr-based metallic glass. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017 , 707, 245-252	5.3	13
15	Stability of shear banding process in bulk metallic glasses and composites. <i>Journal of Materials Research</i> , 2017 , 32, 2560-2569	2.5	8
14	In Situ X-Ray Synchrotron Profile Analysis During High Pressure Torsion of Ti. <i>Minerals, Metals and Materials Series</i> , 2017 , 645-651	0.3	
13	. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-7	2	1

12	Analysis of strain bursts during nanoindentation creep of high-density polyethylene. <i>Polymer International</i> , 2015 , 64, 1537-1543	3.3	6
11	Crystalline plasticity in isotactic polypropylene below and above the glass transition temperature. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 894-900	3.4	2
10	Rate mechanism and dislocation generation in high density polyethylene and other semicrystalline polymers. <i>Polymer</i> , 2014 , 55, 1217-1222	3.9	10
9	The role of dislocations in iPP under plastic deformation investigated by X-ray line profile analysis. <i>Mechanics of Materials</i> , 2013 , 67, 126-132	3.3	18
8	X-ray diffraction study of iPP/cand iPP/TiO ₂ composites relating to micromechanical properties. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 3147-3153	2.9	6
7	The role of dislocations for the plastic deformation of semicrystalline polymers as investigated by multireflection X-ray line profile analysis. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 4150-4154	2.9	11
6	X-ray line profile analysis An ideal tool to quantify structural parameters of nanomaterials. <i>Jom</i> , 2011 , 63, 61-70	2.1	32
5	Plasticity and X-ray Line Profile Analysis of the semicrystalline polymer poly(3-hydroxybutyrate). <i>Journal of Physics: Conference Series</i> , 2010 , 240, 012146	0.3	3
4	Determination of lamella thickness distributions in isotactic polypropylene by X-ray line profile analysis. <i>Polymer</i> , 2010 , 51, 4195-4199	3.9	20
3	Mechanical properties of filled antimonide skutterudites. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010 , 170, 26-31	3.1	83
2	Determination of Critical Strains in Isotactic Polypropylene by Cyclic Loading-Unloading. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2009 , 131,	1.8	10
1	Application of composite models to isotactic polypropylene for the determination of phase specific stress-strain curves. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 483-484, 76-78	5.3	4