

Florian C Spieckermann

List of Publications by Citations

Source: <https://exaly.com/author-pdf/9496676/florian-c-spieckermann-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
46	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
45	Universally scaling Hall-Petch-like relationship in metallic glass matrix composites. <i>International Journal of Plasticity</i> , 2018 , 105, 225-238	7.6	33
44	X-ray line profile analysis An ideal tool to quantify structural parameters of nanomaterials. <i>Jom</i> , 2011 , 63, 61-70	2.1	32
43	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
42	Outstanding strengthening behavior and dynamic mechanical properties of in-situ AlAl ₃ Ni composites by Cu addition. <i>Composites Part B: Engineering</i> , 2020 , 189, 107891	10	21
41	Determination of lamella thickness distributions in isotactic polypropylene by X-ray line profile analysis. <i>Polymer</i> , 2010 , 51, 4195-4199	3.9	20
40	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
39	Dislocation Movement Induced by Molecular Relaxations in Isotactic Polypropylene. <i>Macromolecules</i> , 2017 , 50, 6362-6368	5.5	18
38	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
37	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
36	Room temperature recovery of cryogenically deformed aluminium alloys. <i>Materials and Design</i> , 2020 , 193, 108819	8.1	13
35	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
34	Micropatterning kinetics of different glass-forming systems investigated by thermoplastic net-shaping. <i>Scripta Materialia</i> , 2017 , 137, 127-131	5.6	10
33	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
32	Rate mechanism and dislocation generation in high density polyethylene and other semicrystalline polymers. <i>Polymer</i> , 2014 , 55, 1217-1222	3.9	10
31	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

30	Annealing-assisted high-pressure torsion in Zr55Cu30Al10Ni5 metallic glass. <i>Journal of Alloys and Compounds</i> , 2019 , 784, 1323-1333	5.7	10
29	In-Situ Synchrotron Profile Analysis after High-Pressure Torsion Deformation. <i>Crystals</i> , 2019 , 9, 232	2.3	8
28	Stability of shear banding process in bulk metallic glasses and composites. <i>Journal of Materials Research</i> , 2017 , 32, 2560-2569	2.5	8
27	The influence of crystallization conditions on the macromolecular structure and strength of Polypropylene. <i>Thermochimica Acta</i> , 2019 , 677, 131-138	2.9	6
26	X-ray diffraction study of iPP/cand iPP/TiO2 composites relating to micromechanical properties. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 3147-3153	2.9	6
25	Analysis of strain bursts during nanoindentation creep of high-density polyethylene. <i>Polymer International</i> , 2015 , 64, 1537-1543	3.3	6
24	Composite of medium entropy alloys synthesized using spark plasma sintering. <i>Scripta Materialia</i> , 2021 , 191, 46-51	5.6	6
23	Fast and direct determination of fragility in metallic glasses using chip calorimetry. <i>Heliyon</i> , 2019 , 5, e01334	3.4	5
22	Fabrication of Metastable Crystalline Nanocomposites by Flash Annealing of CuZrAl Metallic Glass Using Joule Heating. <i>Nanomaterials</i> , 2020 , 10,	5.4	5
21	Mechanism of high-pressure torsion-induced shear banding and lamellar thickness saturation in CoCrFeNiNb high-entropy composites. <i>Journal of Materials Research</i> , 2019 , 34, 2672-2682	2.5	4
20	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
19	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
18	From elastic excitations to macroscopic plasticity in metallic glasses. <i>Applied Materials Today</i> , 2021 , 22, 100958	6.6	4
17	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
16	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
15	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
14	Structure-dynamics relationships in cryogenically deformed bulk metallic glass.. <i>Nature Communications</i> , 2022 , 13, 127	17.4	3
13	Effect of high pressure torsion on crystallization and magnetic properties of Fe73.9Cu1Nb3Si15.5B6.6. <i>Journal of Magnetism and Magnetic Materials</i> , 2021 , 525, 167679	2.8	3

12	Ageing Behaviour of Al-Mg-Si Alloys After Cryogenic and Room Temperature Deformation. <i>Materials</i> , 2020 , 13,	3.5	2
11	Maximizing the degree of rejuvenation in metallic glasses. <i>Scripta Materialia</i> , 2022 , 212, 114575	5.6	2
10	Crystalline plasticity in isotactic polypropylene below and above the glass transition temperature. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 894-900	3.4	2
9	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
8	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
7	Strain perceptibility of elements on the diffusion in Zr-based amorphous alloys. <i>Scientific Reports</i> , 2020 , 10, 4575	4.9	1
6	. <i>IEEE Transactions on Magnetics</i> , 2016 , 52, 1-7	2	1
5	Coiled artificial muscles based on UHMWPE with large muscle stroke. <i>Materials Today Communications</i> , 2019 , 21, 100688	2.5	1
4	Transition metal-based high entropy alloy microfiber electrodes: Corrosion behavior and hydrogen activity. <i>Corrosion Science</i> , 2021 , 193, 109880	6.8	0
3	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
2	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
1	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	