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MB

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Publikationsbericht 2024

Institut für Fertigungstechnik und Qualitätssicherung

1. LEITUNG

Institutsleiter:

Univ.-Prof. Dr.-Ing. habil. Dipl.-Phys. Matthias Hackert-Oschätzchen

2. VERÖFFENTLICHUNGEN

BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Ambos, Eberhard; Gabbert, Ulrich; Dragulin, Dan; Heikel, Christian; Angermeier, Andreas; Katun, Peter; Wojek, Christian

Aspekty dalšího vývoje slévárny

Slévárnské listy - Brno : Vydavatel Publisher . - 2024, Heft 1, S. 22-28

Artiushenko, Viktor; Lang, Sebastian; Lerez, Christoph; Reggelin, Tobias; Hackert-Oschätzchen, Matthias

Resource-efficient Edge AI solution for predictive maintenance

Procedia computer science - Amsterdam [u.a.]: Elsevier, Bd. 232 (2024), S. 348-357

Heikel, Christian; Gabbert, Ulrich; Ambos, Eberhard

Die explosionsartige Vermehrung der Autos

Gießerei-Rundschau - [Wien]: Proguss austria, Bd. 71 (2024), Heft 1, S. 12-18

Riefer, Arthur; Hackert-Oschätzchen, Matthias; Plänitz, Philipp; Meichsner, Gunnar

Characterization of iron(III) in aqueous and alkaline environments with ab initio and ReaxFF potentials

The journal of chemical physics - Melville, NY : American Institute of Physics, Bd. 160 (2024), Heft 8, Artikel 082501, insges. 14 S.

Wei, Xueying; Behm, Ingolf; Winkler, Tony; Bähr, Rüdiger

Optimization of extrusion-based additive manufacturing of bronze metal parts using a CuSn10/Polylactic acid composite

Journal of materials research and technology - Rio de Janeiro : Elsevier, Bd. 30 (2024), S. 3602-3610

[Imp.fact.: 6.4]

Wei, Xueying; Bähr, Rüdiger

A comparative study of 3D printing with virgin and recycled polylactic acid filaments

CIRP journal of manufacturing science and technology / CIRP - The International Academy for Production Engineering - Amsterdam [u.a.]: Elsevier, Bd. 54 (2024), S. 75-84

[Imp.fact.: 4.6]

Wei, Xueying; Li, Xujun; Bähr, Rüdiger

Optimizing metal part distortion in the material extrusion-thermal debinding-sintering process - an experimental and numerical study

Heliyon - London [u.a.]: Elsevier, Bd. 10 (2024), Heft 7, Artikel e28899, insges. 14 S.

[Imp.fact.: 4.0]

NICHT BEGUTACHTETE ZEITSCHRIFTENAUFsätze

Michaelis, Chris; Koslowski, Eugen; Hackert-Oschätzchen, Matthias; Giese, Anne; Hamers, Christian; Schwarz, Christian

Gas/hydrogen blends as fuel to produce secondary aluminium

International aluminium journal - Hannover : Giesel, Bd. 100 (2024), Heft 1-2, S. 60-65

BEGUTACHTETE BUCHBEITRäge

Damm, Philipp; Adinehvand, Mohsen; Beutner, Martin; Meichsner, Gunnar; Hahn, Georg; Zimmermann, Dirk; Steffens, Matthias; Hackert-Oschätzchen, Matthias

Analysis of the influence of the initial surface integrity on the result of burnished high torque splined shafts

Materials research proceedings - Millersville, PA : Materials Research Forum LLC, Bd. 41 (2024), S. 1916-1924

Petermann, Richard; Clauß, Pascal; Damm, Philipp; Meichsner, Gunnar; Hackert-Oschätzchen, Matthias

Experimental derivation of process input parameters for electrochemical precision machining of a powder metallurgical tool steel

Materials research proceedings - Millersville, PA : Materials Research Forum LLC, Bd. 41 (2024), S. 2365-2373

Thielecke, Alexander; Hackert-Oschätzchen, Matthias; Meichsner, Gunnar; Berger, Thomas; Loebel, Sascha; Martin, André; Schulze, Robin; Schubert, Andreas

Simulation-based analysis of electrical current induction in a device for electrochemical precision machining of Nd Fe B permanent magnets

Materials research proceedings - Millersville, PA : Materials Research Forum LLC, Bd. 41 (2024), S. 2400-2409