

Veröffentlichungen:

1. **Sover A**, Laserentlackung von thermoplastischen Kunststoffen, Fachvortrag am IMCcon 2025 Effizienz trifft auf Brillanz 11./12. März 2025 | Neue Materialien Bayreuth
2. **Sover A**, Zink M, Innovative, environmentally friendly decoating of metallised plastic products using laser technology (2024) Presentation at the 28th Edition of International Conference (IMANEE 2024), Athens Oct. 2024
3. **Sover A**, Zink M, Innovative, environmentally friendly decoating of metallised plastic products using laser technology (2024) The 28th Edition of International Conference (IMANEE 2024) Oct. 2024
4. Bănică C-F, **Sover A**, Anghel D-C. Printing the Future Layer by Layer: A Comprehensive Exploration of Additive Manufacturing in the Era of Industry 4.0. Applied Sciences. 2024; 14(21):9919. <https://doi.org/10.3390/app14219919>
5. Vasile Ermolai, **Alexandru Sover**, Marius Andrei Boca, Andrei Marius Mihalache, Alexandru Ionuț Irimia, Adelina Hrițuc, Laurențiu Slătineanu, Gheorghe Nagîț, Răzvan Cosmin Stavarache, Mechanical behavior of macroscopic interfaces for 3D printed multi-material samples made of dissimilar materials, Mechanics & Industry 25 24 (2024), <https://doi.org/10.1051/meca/2024017>
6. **Sover, A.**, M-A Boca, Characterisation of the Cooling System Performance of Additively Manufactured Thermoforming Moulds, Conference ICORSEE 2024 (Lecture)
7. Boca, MA., **Sover, A.** (2024). Characterisation of the Cooling System Performance of Additively Manufactured Thermoforming Moulds. In: Cioboată, D.D. (eds) International Conference on Reliable Systems Engineering (ICoRSE) - 2024. ICoRSE 2024. Lecture Notes in Networks and Systems, vol 1129. Springer, Cham. https://doi.org/10.1007/978-3-031-70670-7_2
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10. Annette Martin, **Alexandru Sover**, FORSCHUNG IN FRANKEN, Zweite Chance für kontaminiertes Plastik?, <https://www.fraenkischertag.de/region/ansbach/hochschule-ansbach-zweite-chance-fuer-kontaminiertes-laborplastik-art-313319>, 01.2024
11. **Alexandru Sover**, Vasile Ermolai, Multi-material Shape Memory Polymers: Design Consideration and Implementation, International Journal of Mechatronics & Applied Mechanics, 2024, Issue 15, p7, ISSN 2559-4397
12. Boca M.-A., **Sover A.**, Slătineanu L., Ermolai V., Characterization of Printing Conditions of Powder-Reinforced Resin by LCD Technology, Acta Technica Napocensis - Series: Applied

Mathematics, Mechanics, and Engineering [online], 66.5 (2023), <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2317>

13. Ermolai V., **Sover A.**, Nagîţ G., Boca M.-A., Irimia I.-A., Influence of Fused Filament Fabrication Raster Parameters Over the Top Surface Topography, Acta Technica Napocensis - Series: Applied Mathematics, Mechanics, and Engineering, 66.5 (2023), <https://atna-mam.utcluj.ro/index.php/Acta/article/view/2309>
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15. Ermolai V., **Sover A.** Multi-material 3D Printed Interfaces. Influencing Factors and Design Considerations. International Conference on Reliable Systems Engineering (ICoRSE) - 2023. Bucharest
16. **Sover A.** Additive Manufacturing Technology - the Bridge between Prototyping and Industry, 6th International Conference of the Doctoral School "Gheorghe Asachi" Technical University of Iaşi, May 17 - 19, 2023, Iaşi, România
17. **Sover A.** Entlackung / Entschichtung von Kunststoffprodukten, Vortrag auf dem 22. Treffen der regionalen Kunststoffbranche, GEKA GmbH, Weizendorf, 11. Mai 2023
18. **Sover A.** Umweltfreundliche Entlackung von Kunststoffprodukten, Forschungs- und Innovationstag "FIT 2023"
19. **Sover A.** Methoden zur Entlackung von Kunststoffteilen, Vortrag im Rahmen des Fachforums 2023 "Kunststoffe vernetzen" der VWI HG Ansbach, 15.04.2023
20. **Sover A.** Ermster K, Riess A. K-M, Martin A, Recycling of Laboratory Plastics Waste – a Feasibility Study on Cell Culture Flasks, Polytechnic University of Valencia Congress, 5th International Conference. Business Meets Technology 2023
21. Michalak M and **Sover A.** Influence of storage condition of PVC rooftop sheets on the hot air welding process, Polytechnic University of Valencia Congress, 5th International Conference. Business Meets Technology 2023
22. Boca M-A, Slătineanu L and **Sover A.** Short foray into the stages of conversion from 2.5D to 6D printing, Polytechnic University of Valencia Congress, 5th International Conference. Business Meets Technology 2023
23. Ermolai V and **Sover A.** Influence of contact interface design over the bond formation of 3D printed parts, Polytechnic University of Valencia Congress, 5th International Conference. Business Meets Technology 2023
24. Friedrich B, Tietze R, Dümig M, **Sover A.** Boca MA, Schreiber E, Band J, Janko C, Krappmann S, Alexiou C, Lyer S. Magnetic Removal of Candida albicans Using Salivary Peptide-Functionalized SPIONs. Int J Nanomedicine. 2023; 18:3231-3246; <https://doi.org/10.2147/IJN.S409559>
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37. **Sover, Alexandru**; Zink, Markus; Boca, Marius-Andrei and Schönbucher, Thomas. 2022. Development of recyclable jointless plastic grippers for use in the medical technology sector. In Proc.: 4th International Conference Business Meets Technology. Ansbach, 7th – 9th July 2022. Doi: <https://doi.org/10.4995/BMT2021.2021.15453>

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49. Ermolai V., **Sover A.** and Nagîț G., Influence of contact geometry over the filament bond of polylactic acid blends, IOP Conference Series: Materials Science and Engineering, Volume 1235, The 25th Edition of International Conference (IMANEE 2021) 21/10/2021

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51. Lang, A.,**Sover A.**, Experimental characterisation of physical properties of different PLA filaments used in FFF 3D printing technology, IOP Conference Series: Materials Science and Engineering, <https://doi.org/10.1088/1757-899X/1235/1/012002> -> pee Review
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Untersuchung zum Impactverhalten von Elastomeren mit Hilfe eines Hochgeschwindigkeits-Prüfstandes, 26. Vortrags- und Diskussionsveranstaltung, Werkstoffprüfung 2008, Deutschen Verband für Materialforschung und -prüfung e.V., Dezember 2008
76. **Söver, A.**, Frormann, L.
Untersuchung des Durchstoßverhaltens von Elastomeren mittels neuartigem Hochgeschwindigkeits-Prüfstand, Poster an der 13. Internationale Fachtagung Polymerwerkstoffe 2008, Halle/Saale, September 2008
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Untersuchungen zum Impactverhalten von Elastomeren mit Hilfe eines Hochgeschwindigkeits-Prüfstandes, Abschlussbericht, Arbeitsgemeinschaft industrieller Forschungseinrichtungen „Otto von Guericke“ e.V. (AiF), (KF0188703VT6), 2008
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Untersuchungen zur Entwicklung und Herstellung eines neuartigen Schleif- und Polierverfahrens mittels Dosierung über Hohlfasern bzw. hohle Monofilamente, Abschlussbericht, Arbeitsgemeinschaft industrieller Forschungseinrichtungen „Otto von Guericke“ e.V. (AiF), (KF0188707LK6), 2007

Fachvorträge (Technical lectures)

1. A. Sover
Technologies of Paint Removal from Thermoplastic Materials, Innovative Manufacturing Engineering & Energy International Conference, 23rd edition of IManEE 2019 International Conference, May 22 – 24, 2019 Pitesti, Romania
2. **A. Sover**, P. Philipp, A. Tamer
Digital Direct Metallization (DDM) by a plasma coating process on polymeric components and its applications, Innovative Manufacturing Engineering & Energy International Conference, 21th edition, May 25-26, 2017 Iasi, Romania
3. P. Genter, H. Diehl, S. Höfer, N. Kugler, U. Lehmann, A. Reiser, S. Riecke, D. Seitz, **A. Söver**, et al. UV Laser for Micro- and Marking Applications, Deutsche Gesellschaft für Materialkunde (German Materials Society), Session – UV-Laser Processing, Darmstadt, September 2014
4. **A. Söver**, A. Escartin, P. Genter, et al.
UV Laser Aesthetic Marking on White Polymer Materials, Deutsche Gesellschaft für Materialkunde (German Materials Society), Session – UV-Laser Processing, Darmstadt, September 2014
5. Söver, A.
Untersuchungen zum Durchstoßverhalten von Elastomerwerkstoffen bei hohen Verformungsgeschwindigkeiten, Vortrag an der 13. Tagung Problemseminar Deformation und Bruchverhalten von Kunststoffen, Halle-Merseburg, Juni 2011
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Untersuchungen zum Durchstoßverhalten von Elastomerwerkstoffen bei hohen Verformungsgeschwindigkeiten, Vortrag an der TU Clausthal, 2010

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Hochgeschwindigkeits-Impactverhalten von Elastomeren, Vortrag an der 12. Tagung Problemseminar Deformation und Bruchverhalten von Kunststoffen, Halle-Merseburg, Juni 2009
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Entwicklung einer Hochgeschwindigkeitsprüfanlage für die Untersuchung von Elastomeren, Problemseminar an der Martin-Luther-Universität Halle-Wittenberg, Mai 2009
9. **Söver, A.**
Untersuchung zum Impactverhalten von Elastomeren mit Hilfe eines Hochgeschwindigkeits-Prüfstandes, 26. Vortrags- und Diskussionsveranstaltung, Werkstoffprüfung 2008, Deutschen Verband für Materialforschung und -prüfung e.V., Berlin, Dezember 2008
10. **Söver, A.**
Untersuchungen zum Impactverhalten von Elastomeren mit Hilfe eines Hochgeschwindigkeits-Prüfstandes, Kurzvortrag am Steinbeis-Tag 2008, Stuttgart, September 2008

Patente / Patentanmeldungen

EP 3 225 375 A1 (2016)

[DE] Kunststoffformteil mit farbiger UV-Markierung, Verfahren zur Herstellung einer Markierung des Kunststoffformteils sowie In-Mould-Folie mit fotochromen Pigmenten

[EN] Plastic moulded part with coloured UV marking, method for producing a mark on the plastic moulded part and in-mould film with photochrome pigments

EP 3 225 376 A1 (2016)

[DE] Kunststoffformteil mit schwarzer- bzw. grauer UV-Markierung, Verfahren zur Herstellung einer Markierung des Kunststoffformteils sowie In-Mould-Folie

[EN] Plastic moulded part with black or grey UV marking, method for producing a mark on the plastic moulded part and in-mould film

DE 102012022847A1 (2014)

[DE] Dämpfungsmodul zur Reduzierung von Schwingungen bzw. Lärmentwicklung an Schienen

[EN] Damping module for reducing vibration and noise development on rails

DE 102013000073A1 (2014)

[DE] Windabweiser sowie Verfahren zur Herstellung eines Windabweisers

[EN] Wind deflector for motor vehicle to deflect drive air flow from roof area, particularly roof opening of motor vehicle, has base unit for stationary fixing of wind deflector in roof of motor vehicle, where draw unit is formed in bow-shape

DE 10 2006 027 616 A1 (2007)

[DE] Dehnungsmessstreifen (DMS) aus Basis extrinsisch elektrisch leitfähiger Polymerwerkstoffe zur Ermittlung der Dehnung von Bauteilen bzw. Objekten mittels Widerstandsänderung derartiger DMS bei Verformung