

UČNI NAČRT PREDMETA/COURSE SYLLABUS

Predmet:	Raziskave v strojništvu
Course title:	RESEARCH IN MECHANICAL ENGINEERING
Članica nosilka/UL Member:	UL FS

Študijski programi in stopnja	Študijska smer	Letnik	Semestri
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Mehatronika in laserska tehnika (smer)	2. letnik	2. semester
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Proizvodno strojništvo (smer)	2. letnik	2. semester
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Energetsko strojništvo (smer)	2. letnik	2. semester
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Konstruiranje (smer)	2. letnik	2. semester
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Mehanika (smer)	2. letnik	2. semester
Strojništvo - Razvojno raziskovalni program, druga stopnja, magistrski	Procesno strojništvo (smer)	2. letnik	2. semester

Univerzitetna koda predmeta/University course code: 0566826

Koda učne enote na članici/UL Member course code: 6011-M

Predavanja	Seminar	Vaje	Klinične vaje	Druge oblike študija	Samostojno delo	ECTS
90		90			195	15

Nosilec predmeta/Lecturer: Andrej Bombač, Andrej Kitanovski, Andrej Senegačnik, Boris Jerman, Božidar Šarler, Damjan Klobčar, Davorin Kramar, Drago Bračun, Edvard Govekar, Franc Majdič, Franci Pušavec, Iztok Golobič, Janez Diaci, Janez Kušar, Janez Žerovnik, Janko Slavič, Jernej Klemenc, Joško Valentinčič, Jože Kutin, Jurij Prezelj, Lidija Slemenik Perše, Marko Hočevar, Marko Nagode, Matija Jezeršek, Miha Boltežar, Miha Brojan, Mihael Sekavčnik, Miroslav Halilovič, Mitjan Kalin, Niko Herakovič, Nikola Vukašinović, Nikolaj Mole, Primož Podržaj, Robert Kunc, Rok Petkovšek, Rok Vrabič, Roman Šturm, Sašo Medved, Tadej Kosel, Tomaž Katrašnik, Tomaž Pepelnjak, Uroš Stritih

Vrsta predmeta/Course type: Obvezni splošni predmet /Compulsory general course

Jeziki/Languages:	Predavanja/Lectures:	Slovenščina
	Vaje/Tutorial:	Slovenščina

Pogoji za vključitev v delo oz. za opravljanje študijskih obveznosti:

V sklopu predmeta se student spozna s širšim področjem določenega dela tematike, ki jo bo obdelal v magistrski nalogi. Zato so pogoj za vključitev v delo opravljene študijske obveznosti 1. in 2. semestra MAG študijskega programa.

Prerequisites:

As part of the course, the student gets introduced to the broader field of a certain part of the topic, which he will deal with in the master's thesis. Therefore, the requirement for the course is completed study obligations of the 1st and 2nd semester of the MAG study program.

Vsebina:

Glede na širši vidik obravnavane raziskovalne tematike magistrskega dela študent izbere tri nosilce tega predmeta, pri katerih bo opravljal ta predmet.

1. Predstavitev ciljev predmeta in posameznih raziskovalnih tematik, ki jih bodo študentje opravljali tekom leta.
 2. Pregled znanstvene literature dogovoru z izbranimi nosilci predmeta.
 3. Interaktivna predstavitev obdelanih temeljnih vsebin z individualno ali skupinsko diskusijo.
 4. Opredelitev individualnega parcialnega problema na obravnavanem področju ob vodenju nosilcev predmeta.
 5. Priprava načrta iskanja rešitev za opredeljeni parcialni problem ob vodenju nosilcev predmeta.
 6. Pregled in študij teoretičnih osnov izbrane tematike.
 7. Analitične metode modeliranja sistemov/procesov izbrane tematike*.
 8. Numerične metode modeliranja sistemov/procesov izbrane tematike*.
- * Glede na predvidene naloge so podani poudarki na eksperimentalnih, računalniških ali analitičnih raziskovalnih vsebinah.
9. Interaktivna predstavitev povzetka obdelanih specializiranih vsebin z individualno ali skupinsko diskusijo.
 10. Zasnova in razvoj naprave / eksperimentalnega sistema / računskega modela v sklopu izbrane tematike.
 11. Razvoj metodologije vrednotenja razvite naprave / eksperimentalnega sistema / računskega modela.
 12. Razvoj in izvedba eksperimentalnega dela.
 13. Korelacija eksperimentalnih rezultatov s teoretičnimi napovedmi.
 14. Interaktivna predstavitev eksperimentalnih, računalniških ali analitičnih orodij ter primerjava z ugotovitvami iz dostopne literature.
 15. Pregled izzivov za prihodnost na področju izbrane raziskovalne tematike.

Content (Syllabus outline):

According to the broader aspect of the research topic of the master's thesis, the student chooses three lecturers of this course, with whom he will pursue this course.

1. Presentation of the course objectives and individual research topics that students will undertake throughout the year.
 2. Review of the scientific literature in agreement with the chosen lecturers.
 3. An interactive presentation of discussed core content through individual or group discussion.
 4. Definition of an individual partial problem in the area under consideration guided by lecturers.
 5. Preparation of a plan for finding solutions to the defined partial problem guided by lecturers.
 6. Review and study of the theoretical basis of the selected topic.
 7. Analytical methods for modelling systems / processes of the selected topic*.
 8. Numerical methods for modelling systems / processes of the selected topic*.
- * According to the selected assignment, emphasis are placed on experimental, computer or analytical research.
9. An interactive presentation of a summary of studied specialized content with individual or group discussion.
 10. Design and development of the device / experimental system / computational model within the chosen topic.
 11. Development of evaluation methodology of developed device / experimental system / computational model.
 12. Development and implementation of experimental work.
 13. Correlation of experimental results with theoretical predictions.
 14. Interactive presentation of experimental, computer or analytical tools and comparison with findings from available literature.
 15. An overview of the challenges ahead for the chosen research topic.

Temeljna literatura in viri/Readings:

Določena je smiselno v dogovoru s tremi nosilci predmeta za vsakega študenta posebej glede na izbrano problematiko. Literatura je dosegljiva v knjižnici laboratorija, fakultetni knjižnici ali širše. Praviloma študent študira iz člankov, ki so obravnavali podoben primer, kakor ga ima sam definiranega.

It is determined appropriately in agreement with three lecturers for each student according to the chosen topic. Literature is available at the lab library, faculty library or beyond. As a rule, a student studies from articles dealing with a similar case as he or she has defined.

Cilji in kompetence:

Cilji:

1. Omogočiti študentu seznanitev s temeljno in predmetno specifično literaturo na delu tematike, ki bo obravnavana v magistrski nalogi.
2. Seznanitev z namensko opremo na področju eksperimentiranja in uporabe računalniških orodij. Študent tako spozna posebnosti, ki jih lahko uporabi.
3. Predmet se izvaja v laboratoriju (enem ali več) odvisno od dogovora z mentorjem in nosilci predmeta.

Kompetence:

S1-MAG: Sposobnost za opredelitev, razumevanje temeljnih znanstvenih problemov in ustvarjalno reševanje strokovnih izzivov.

S2-MAG: Širitev sposobnosti kritičnega, analitičnega in sintetičnega mišljenja. Razvijanje novega znanja in razumevanja področja. Razvijanje višjih kognitivnih veščin, povezanih z ustvarjanjem novega znanja.

S8-MAG: Sposobnost iskanja virov, kritične presoje informacij, samostojnega nadgrajevanja pridobljenih znanj in poglobljanja znanja na posameznih specializiranih področjih strojništva

S10-MAG: Sposobnost uporabe sodobnih raziskovalnih metod in postopkov. Zmožnost raziskovanja in prenašanja spoznanj v prakso.

P1-MAG: Sposobnost za nadgrajevanje in uporabo temeljnih strojniških znanj ter njihovo razvojno-tehniško implementacijo.

P4-MAG: Sposobnost fizikalnega, matematičnega in numeričnega modeliranja problemov z razvito sposobnostjo kritične analize rezultatov.

P7-MAG: Na osnovi analize in sinteze razvita sposobnost iskanja optimalnejših rešitev.

Objectives and competences:

Objectives:

1. To enable the student to get acquainted with the basic and specific literature on the topic that will be discussed in the master's thesis.
2. To familiarize with the specific equipment in the field of experimentation and use of computer tools. Thus the student learns about the special features that he can use.
3. The course is carried out in the laboratory (one or more), depending on the agreement with the mentor and course lecturers.

Competencies:

S1-MAG: The ability to define and understand fundamental scientific problems, and to creatively deal with professional challenges.

S2-MAG: Improved capability of critical, analytical and synthetical thinking. Development of new knowledge and comprehension of the professional field. Development of higher cognitive skills, related to the creation of new knowledge

S8-MAG: The ability to find sources, critically evaluate information, independently upgrade the attained knowledge and deepen the knowledge in the individual specialised fields of mechanical engineering.

S10-MAG: The ability to use modern research methods and procedures. Capacity to research and transfer the findings into practice.

P1-MAG: The ability to upgrade and use the fundamental mechanical engineering knowledge, including the developmental-technical implementation thereof.

P4-MAG: The ability for physical, mathematical and numerical modelling of problems, including a developed ability to critically analyse the results.

P7-MAG: The ability to find optimal solutions based on analysis and synthesis.

Predvideni študijski rezultati:

Intended learning outcomes:

<p>Znanja:</p> <p>Z2: Poglobljeno teoretično, metodološko in analitično znanje z elementi raziskovanja, ki je osnova za zelo zahtevno strokovno delo.</p> <p>Spretnosti:</p> <p>S2.1 Obvladovanje zelo zahtevnih, kompleksnih delovnih procesov in metodoloških orodij na specializiranih področjih.</p> <p>S2.2 Načrtovanje in vodenje delovnega procesa na podlagi ustvarjalnega reševanja problemov, povezanih s področjem izobraževanja in usposabljanja.</p> <p>S2.3 Sposobnost izvirnih dognanj/stvaritev in kritične refleksije.</p>	<p>Knowledge:</p> <p>Z2: Thorough theoretical, methodological and analytical knowledge with elements of a research work that form a basis for very demanding professional work</p> <p>Skills:</p> <p>S2.1 Mastering very demanding and complex work processes and methodological tools in specialised professional fields.</p> <p>S2.2 Planning and managing of the working process on the basis of creative solving of problems that are linked to the teaching and training content.</p> <p>S2.3 Ability of unique innovations and critical reflections.</p>
---	--

Metode poučevanja in učenja:

Learning and teaching methods:

<p>Klasične oblike poučevanja:</p> <p>P1 Avditorna predavanja z reševanjem izbranih - za področje značilnih - teoretičnih in praktično uporabnih primerov.</p> <p>P2 Obravnava snovi po urejeni in vnaprej razloženi sistematiki.</p> <p>P5 Uporaba študijskega gradiva v obliki (opišite kateri-maks. ena vrstica na eno vrsto gradiva, izbirate med besedami npr. knjiga, skripta, zapiski, e-knjiga, tiskana verzija predstavitve predavanj, e-verzija predstavitve predavanj).</p> <p>Moderne in prožne oblike poučevanja:</p> <p>P6 Interaktivna predavanja</p> <p>P7 Študij literature in razprava</p> <p>P8 Izdelava in predstavitev aplikativnih seminarskih nalog</p> <p>P14 Virtualni eksperimenti</p>	<p>Conventional teaching methods:</p> <p>P1 Auditorial lectures with solving selected field-specific theoretical and applied use cases.</p> <p>P2 Presenting the content according to the explained system.</p> <p>P5 Application of study material (description needs to be added, max. one line per material, e.g. textbook, e-book, printed lecture presentations, etc.).</p> <p>Contemporary and flexible teaching methods:</p> <p>P6 Interactive lectures.</p> <p>P7 Literature study and discussion.</p> <p>P8 Making and presenting applied seminar exercises.</p> <p>P14 Virtual experiments.</p>
--	---

Načini ocenjevanja:

Delež/Weight Assessment:

Pisni preskus znanja.	50,00 %	Written examination.
Ocena končnih poročil (po enega za vsakega od treh nosilcev).	50,00 %	Evaluation of final reports (one report per each of three lecturers)

Reference nosilca/Lecturer's references:

Boltežar Miha

1. Tomaž, HOLEČEK, Nikola, ČEPON, Gregor, RIXEN, Daniel J., **BOLTEŽAR, Miha**. Including directly measured

rotations in the virtual point transformation. *Mechanical systems and signal processing*, ISSN 0888-3270, July 2020, vol. 141, str. 1-21, ilustr. <https://www.sciencedirect.com/science/article/pii/S0888327019306612>, doi: [10.1016/j.ymssp.2019.106440](https://doi.org/10.1016/j.ymssp.2019.106440). [COBISS.SI-ID [17033755](#)].

2. OGRINEC, Primož, SLAVIČ, Janko, ČESNIK, Martin, **BOLTEŽAR, Miha**. Vibration fatigue at half-sine impulse excitation in the time and frequency domains. *International journal of fatigue*, ISSN 0142-1123, Jun. 2019, vol. 123, str. 308-317, ilustr. <https://www.sciencedirect.com/science/article/pii/S0142112319300568?via%3Dihub>, doi: [10.1016/j.ijfatigue.2019.02.031](https://doi.org/10.1016/j.ijfatigue.2019.02.031). [COBISS.SI-ID [16539419](#)].
3. GORJUP, Domen, SLAVIČ, Janko, **BOLTEŽAR, Miha**. Frequency domain triangulation for full-field 3D operating-deflection-shape identification. *Mechanical systems and signal processing*, ISSN 0888-3270, Nov. 2019, vol. 133, str. 1-13, ilustr. <https://www.sciencedirect.com/science/article/pii/S0888327019305023>, doi: [10.1016/j.ymssp.2019.106287](https://doi.org/10.1016/j.ymssp.2019.106287). [COBISS.SI-ID [16751899](#)].

Brojan Miha

1. VELDIN, Tomo, BRANK, Boštjan, **BROJAN, Miha**. Computational finite element model for surface wrinkling of shells on soft substrates. *Communications in Nonlinear Science & Numerical Simulation*, ISSN 1007-5704, maj 2019, letn. XX, str. 1-29, ilustr. DOI: [10.1016/j.cnsns.2019.104863](https://doi.org/10.1016/j.cnsns.2019.104863). [COBISS.SI-ID [8813409](#)]
2. **BROJAN, Miha**, TERWAGNE, Denis, LAGRANGE, Romain, REIS, Pedro. Wrinkling crystallography on spherical surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, ISSN 0027-8424, Jan. 2015, vol. 112, no. 1, str. 14-19, ilustr., DOI: [10.1073/pnas.1411559112](https://doi.org/10.1073/pnas.1411559112). [COBISS.SI-ID [13852187](#)].
3. TERWAGNE, Denis, **BROJAN, Miha**, REIS, Pedro. Smart morphable surfaces for aerodynamic drag control. *Advanced materials*, ISSN 0935-9648, Oct. 2014, vol. 26, iss. 38, str. 6608-6611, ilustr., DOI: [10.1002/adma.201401403](https://doi.org/10.1002/adma.201401403). [COBISS.SI-ID [13725211](#)]

Diaci Janez

1. PAVLOVČIČ, Urban, **DIACI, Janez**, MOŽINA, Janez, JEZERŠEK, Matija. Wound perimeter, area, and volume measurement based on laser 3D and color acquisition. *BioMedical engineering online*. Apr. 2015, vol. 14, f. 1-15, ilustr. ISSN 1475-925X. DOI: [10.1186/s12938-015-0031-7](https://doi.org/10.1186/s12938-015-0031-7). [COBISS.SI-ID [13973787](#)]
2. PRIBOŠEK, Jaka, **DIACI, Janez**. Electromagnetic microforging apparatus for low-cost fabrication of molds for microlens arrays. *Journal of micromechanics and microengineering*. [Print ed.]. 2015, vol. 25, nr. 6, str. 1-10, ilustr. ISSN 0960-1317. DOI: [10.1088/0960-1317/25/6/065018](https://doi.org/10.1088/0960-1317/25/6/065018). [COBISS.SI-ID [14009115](#)]
3. HORVAT, Darja, LAZAR, Dušan, MOŽINA, Janez, KRIŽAN, Janez, **DIACI, Janez**, TERZIČ, Mira. Green upconversion in Y2O3:Yb nanopowder. *Journal of nanophotonics*. Sep. 2015, vol. 9, no. 1, str. 1-12, ilustr. ISSN 1934-2608. <http://nanophotonics.spiedigitallibrary.org/article.aspx?articleid=2442453#Experimental>, DOI: [10.1117/1.JNP.9.093054](https://doi.org/10.1117/1.JNP.9.093054). [COBISS.SI-ID [14175259](#)]

Golobič Iztok

1. MOŽE, Matic, ZUPANČIČ, Matevž, HOČEVAR, Matej, **GOLOBIČ, Iztok**, GREGORČIČ, Peter. Surface chemistry and morphology transition induced by critical heat flux incipience on laser-textured copper surfaces. *Applied Surface Science*. [Print ed.]. Oct. 2019, vol. 490, str. 220-230, ilustr. ISSN 0169-4332. <https://www.sciencedirect.com/science/article/pii/S0169433219317623?via%3Dihub>, DOI: [10.1016/j.apsusc.2019.06.068](https://doi.org/10.1016/j.apsusc.2019.06.068). [COBISS.SI-ID [16653083](#)]
2. SITAR, Anže, MOŽE, Matic, CRIVELLARI, Michele, SCHILLE, Jörg, **GOLOBIČ, Iztok**. Nucleate pool boiling heat transfer on etched and laser structured silicon surfaces. *International journal of heat and mass transfer*. [Print ed.]. Feb. 2020, vol. 147, str. 1-12, ilustr. ISSN 0017-9310. <https://www.sciencedirect.com/science/article/pii/S0017931019344229?dgcid=author>, DOI: [10.1016/j.ijheatmasstransfer.2019.118956](https://doi.org/10.1016/j.ijheatmasstransfer.2019.118956). [COBISS.SI-ID [16885531](#)]
3. VOGLAR, Jure, GREGORČIČ, Peter, ZUPANČIČ, Matevž, **GOLOBIČ, Iztok**. Boiling performance on surfaces with capillary-length-spaced one- and two-dimensional laser-textured patterns. *International journal of heat and mass transfer*. [Print ed.]. Dec. 2018, vol. 127, part a, str. 1188-1196, ilustr. ISSN 0017-9310. <https://www.sciencedirect.com/science/article/pii/S0017931018315357>, DOI: [10.1016/j.ijheatmasstransfer.2018.07.056](https://doi.org/10.1016/j.ijheatmasstransfer.2018.07.056). [COBISS.SI-ID [16149019](#)]

Govekar Edvard

1. KOTAR, Matjaž, FUJISHIMA, Makoto, LEVY, Gideon N., **GOVEKAR, Edvard**. Initial transient phase and stability of

annular laser beam direct wire deposition. *CIRP annals*. 2019, vol. 68, iss. 1, str. 233-236, ilustr. ISSN 0007-8506. <https://www.sciencedirect.com/science/article/pii/S0007850619301507?via%3Dihub>, DOI: [10.1016/j.cirp.2019.04.118](https://doi.org/10.1016/j.cirp.2019.04.118). [COBISS.SI-ID [16601883](#)]

2. JEROMEN, Andrej, **GOVEKAR, Edvard**. Time series analysis based study of a mass-spring-like oscillation and detachment of a metal pendant droplet. *Mechanical systems and signal processing*. Dec. 2016, vol. 80, str. 503-516, ilustr. ISSN 0888-3270. <http://www.sciencedirect.com/science/article/pii/S0888327016300772>, DOI: [10.1016/j.ymssp.2016.04.038](https://doi.org/10.1016/j.ymssp.2016.04.038). [COBISS.SI-ID [14623515](#)]
3. POTOČNIK, Primož, SOLDI, Božidar, ŠIMUNOVIĆ, Goran, ŠARIĆ, Tomislav, JEROMEN, Andrej, **GOVEKAR, Edvard**. Comparison of static and adaptive models for short-term residential natural gas forecasting in Croatia. *Applied energy*. Sep. 2014, vol. 129, str. 94-103, ilustr. ISSN 0306-2619. [COBISS.SI-ID [13478939](#)]

Halilovič Miroslav

1. **HALILOVIČ, Miroslav**, STARMAN, Bojan, VRH, Marko, ŠTOK, Boris. A robust explicit integration of elasto-plastic constitutive models, based on simple subincrement size estimation. *Engineering computations*. 2017, vol. 34, iss. 6, str. 1774-1806, ilustr. ISSN 0264-4401. <http://www.emeraldinsight.com/doi/pdfplus/10.1108/EC-03-2016-0103>, DOI: [10.1108/EC-03-2016-0103](https://doi.org/10.1108/EC-03-2016-0103). [COBISS.SI-ID [15583259](#)]
2. STARMAN, Bojan, **HALILOVIČ, Miroslav**, VRH, Marko, ŠTOK, Boris. Consistent tangent operator for cutting-plane algorithm of elasto-plasticity. *Computer methods in applied mechanics and engineering*. [Print ed.]. Apr. 2014, vol. 272, str. 214-232, ilustr. ISSN 0045-7825. DOI: [10.1016/j.cma.2013.12.012](https://doi.org/10.1016/j.cma.2013.12.012). [COBISS.SI-ID [13311515](#)]
3. **HALILOVIČ, Miroslav**, VRH, Marko, ŠTOK, Boris. NICEh - a higher-order explicit numerical scheme for integration of constitutive models in plasticity. *Engineering with computers*. 2013, vol. 29, iss. 1, str. 55-70, ilustr. ISSN 0177-0667. <https://link.springer.com/article/10.1007%2Fs00366-011-0243-9>, DOI: [10.1007/s00366-011-0243-9](https://doi.org/10.1007/s00366-011-0243-9). [COBISS.SI-ID [11946779](#)]

Herakovič Niko

1. **HERAKOVIČ, Niko**, ZUPAN, Hugo, PIPAN, Miha, PROTNER, Jernej, ŠIMIC, Marko. Distributed manufacturing systems with digital agents. *Strojniški vestnik*. Nov./Dec. 2019, vol. 65, no. 11/12, str. 650-657, ilustr. ISSN 0039-2480. <https://www.sv-jme.eu/sl/article/distributed-manufacturing-systems-with-digital-agents/>, DOI: [10.5545/sv-jme.2019.6331](https://doi.org/10.5545/sv-jme.2019.6331). [COBISS.SI-ID [16942875](#)]
2. RESMAN, Matevž, PIPAN, Miha, ŠIMIC, Marko, **HERAKOVIČ, Niko**. A new architecture model for smart manufacturing : a performance analysis and comparison with the RAMI 4.0 reference model. *Advances in production engineering & management*. Jun. 2019, vol. 14, no. 2, str. 153-165, ilustr. ISSN 1854-6250. http://apem-journal.org/Archives/2019/APEM14-2_153-165.pdf, DOI: [10.14743/apem2019.2.318](https://doi.org/10.14743/apem2019.2.318). [COBISS.SI-ID [16766235](#)]
3. ŠIMIC, Marko, **HERAKOVIČ, Niko**. Reduction of the flow forces in a small hydraulic seat valve as alternative approach to improve the valve characteristics. *Energy conversion and management*. [Print ed.]. 2015, vol. 89, str. 708-718, ilustr. ISSN 0196-8904. <https://www.sciencedirect.com/science/article/pii/S0196890414009182?via%3Dihub>, DOI: [10.1016/j.enconman.2014.10.037](https://doi.org/10.1016/j.enconman.2014.10.037). [COBISS.SI-ID [13766683](#)]

Hočevar Marko

1. NOVAK, Lovrenc, ŠIROK, Brane, **HOČEVAR, Marko**, GATARIĆ, Pero. Influence of load mass and drum speed on fabric motion and performance of a heat pump tumble dryer. *Drying technology*. [Print ed.]. 2020, str. 1-15, [COBISS.SI-ID [17092379](#)]
2. RAK, Gašper, STEINMAN, Franci, **HOČEVAR, Marko**, DULAR, Matevž, JEZERŠEK, Matija, PAVLOVČIČ, Urban. Laser ranging measurements of turbulent water surfaces. *European journal of mechanics.B, Fluids*. feb. 2020, letn. xx, št. xx, str. 1-12, [COBISS.SI-ID [9085793](#)]
3. KHLIFA, Ilyass, VABRE, Alexandre, **HOČEVAR, Marko**, FEZAA, Kamel, FUZIER, Sylvie, ROUSSETTE, Olivier, COUTIER-DELGOSHA, Olivier. Fast X-ray imaging of cavitating flows. *Experiments in fluids*. Nov. 2017, vol. 58, str. 1-22, [COBISS.SI-ID [15738139](#)]

Jezeršek Matija

1. SENEGAČNIK, Matej, **JEZERŠEK, Matija**, GREGORČIČ, Peter. Propulsion effects after laser ablation in water, confined by different geometries. *Applied physics.A, Materials science & processing*. Feb. 2020, vol. 126, iss. 2, str. 1-12, ilustr. ISSN 0947-8396. <https://link.springer.com/article/10.1007%2Fs00339-020-3309-y>, DOI:

[10.1007/s00339-020-3309-y](https://doi.org/10.1007/s00339-020-3309-y). [COBISS.SI-ID [17026587](https://www.cobiss.si/id/17026587)]

2. RAK, Gašper, STEINMAN, Franci, HOČEVAR, Marko, DULAR, Matevž, **JEZERŠEK, Matija**, PAVLOVČIČ, Urban. Laser ranging measurements of turbulent water surfaces. *European journal of mechanics.B, Fluids*. feb. 2020, letn. xx, št. xx, str. 1-12, ilustr. ISSN 0997-7546. <https://www.sciencedirect.com/journal/european-journal-of-mechanics-b-fluids/articles-in-press>, DOI: [10.1016/j.euromechflu.2020.02.001](https://doi.org/10.1016/j.euromechflu.2020.02.001). [COBISS.SI-ID [9085793](https://www.cobiss.si/id/9085793)]
3. LUKAČ, Matjaž, LUKAČ, Nejc, **JEZERŠEK, Matija**. Characteristics of bubble oscillations during laser-activated irrigation of root canals and method of improvement. *Lasers in surgery and medicine*. 2020, f. 1-9, ilustr. ISSN 1096-9101. <https://onlinelibrary.wiley.com/doi/full/10.1002/lsm.23226>, DOI: [10.1002/lsm.23226](https://doi.org/10.1002/lsm.23226). [COBISS.SI-ID [17039899](https://www.cobiss.si/id/17039899)]

Kalin Mitjan

1. BRODNIK ŽUGELJ, Blaž, **KALIN, Mitjan**. Submicron-scale experimental analyses of multi-asperity contacts with different roughnesses. *Tribology international*, ISSN 0301-679X, Mar. 2018, vol. 119, str. 667-671, ilustr. <http://www.sciencedirect.com/science/article/pii/S0301679X17303249?via%3Dihub>, doi: [10.1016/j.triboint.2017.06.036](https://doi.org/10.1016/j.triboint.2017.06.036). [COBISS.SI-ID [15800091](https://www.cobiss.si/id/15800091)]
2. **KALIN, Mitjan**, POLJANEC, Dejan. Influence of the contact parameters and several graphite materials on the tribological behaviour of graphite/copper two-disc electrical contacts. *Tribology international*, ISSN 0301-679X, Oct. 2018, vol. 126, str. 192-205, ilustr. <https://www.sciencedirect.com/science/article/pii/S0301679X18302524?via%3Dihub>, doi: [10.1016/j.triboint.2018.05.024](https://doi.org/10.1016/j.triboint.2018.05.024). [COBISS.SI-ID [16085531](https://www.cobiss.si/id/16085531)]
3. **KALIN, Mitjan**, POGAČNIK, Aljaž, ETSION, I., RAEYMAEKERS, B. Comparing surface topography parameters of rough surfaces obtained with spectral moments and deterministic methods. *Tribology international*, ISSN 0301-679X, Jan. 2016, vol. 93, pt. A, str. 137-141, ilustr. <https://www.sciencedirect.com/science/article/pii/S0301679X15004156?via%3Dihub>, doi: [10.1016/j.triboint.2015.09.013](https://doi.org/10.1016/j.triboint.2015.09.013). [COBISS.SI-ID [14288923](https://www.cobiss.si/id/14288923)]

Katrašnik Tomaž

1. **KATRAŠNIK, Tomaž**. An advanced real-time capable mixture controlled combustion model. *Energy*, ISSN 0360-5442. [Print ed.], Jan. 2016, vol. 95, str. 393-403, ilustr. [COBISS.SI-ID [14407195](https://www.cobiss.si/id/14407195)]
2. MELE, Igor, PAČNIK, Ivo, ZELIČ, Klemen, MOŠKON, Jože, **KATRAŠNIK, Tomaž**. Advanced porous electrode modelling framework based on more consistent virtual representation of the electrode topology. *Journal of the Electrochemical Society*, ISSN 1945-7111. [Online ed.], 2020, vol. 167, no. 6, str. [1-18]. [COBISS.SI-ID [17157915](https://www.cobiss.si/id/17157915)]
3. KREGAR, Ambrož, TAVČAR, Gregor, KRAVOS, Andraž, **KATRAŠNIK, Tomaž**. Predictive system-level modeling framework for transient operation and cathode platinum degradation of high temperature proton exchange membrane fuel cells. *Applied energy*, ISSN 0306-2619, 2020, vol. 263, 17 f. [COBISS.SI-ID [17037083](https://www.cobiss.si/id/17037083)]

Kitanovski Andrej

1. **KITANOVSKI, Andrej**. Energy applications of magnetocaloric materials. *Advanced energy materials*, ISSN 1614-6832, 2020, vol. 10, iss. 10, str. 1-34, <https://onlinelibrary.wiley.com/doi/10.1002/aenm.201903741>, doi: [10.1002/aenm.201903741](https://doi.org/10.1002/aenm.201903741). [COBISS.SI-ID [17031963](https://www.cobiss.si/id/17031963)]
2. KLINAR, Katja, **KITANOVSKI, Andrej**. Thermal control elements for caloric energy conversion. *Renewable & sustainable energy reviews : an international journal*, ISSN 1364-0321. [Print ed.], 2020, vol. 118, str. 1-17, <https://www.sciencedirect.com/science/article/pii/S1364032119307798?via%3Dihub#undfig1>, doi: [10.1016/j.rser.2019.109571](https://doi.org/10.1016/j.rser.2019.109571). [COBISS.SI-ID [16906011](https://www.cobiss.si/id/16906011)]
3. LORBEC, Luka, POREDOŠ, Primož, **KITANOVSKI, Andrej**, POREDOŠ, Alojz. Analytical modeling and numerical simulation of heat transfer in a skin evaporator. *International journal of refrigeration*, ISSN 0140-7007. [Print ed.], 2018, vol. 88, str. 195-203, ilustr. <https://www.sciencedirect.com/science/article/pii/S0140700718300318>, doi: [10.1016/j.ijrefrig.2018.01.012](https://doi.org/10.1016/j.ijrefrig.2018.01.012). [COBISS.SI-ID [15891227](https://www.cobiss.si/id/15891227)]

Klemenc Jernej

1. TOMAŽINČIČ, Dejan, VESENJAK, Matej, **KLEMENC, Jernej**. Prediction of static and low-cycle durability of porous cellular structures with positive and negative Poisson's ratios. *Theoretical and Applied Fracture Mechanics*. [Print ed.], Apr. 2020, vol. 106 (102479), str. 1-13, ilustr. ISSN 0167-8442.

<https://www.sciencedirect.com/science/article/pii/S0167844219307323>, DOI: [10.1016/j.tafmec.2020.102479](https://doi.org/10.1016/j.tafmec.2020.102479). [COBISS.SI-ID [22988310](https://www.cobiss.si/record/22988310)]

2. **KLEMENC, Jernej**, ŠERUGA, Domen, NAGODE, Aleš, NAGODE, Marko. Comprehensive modelling of the hysteresis loops and strain-energy density for low-cycle fatigue-life predictions of the AZ31 magnesium alloy. *Materials*. Nov. 2019, vol. 12, iss. 22, f. 1-24, ilustr. ISSN 1996-1944. <https://www.mdpi.com/1996-1944/12/22/3692>, DOI: [10.3390/ma12223692](https://doi.org/10.3390/ma12223692). [COBISS.SI-ID [16894235](https://www.cobiss.si/record/16894235)]
3. **KLEMENC, Jernej**. Influence of fatigue-life data modelling on the estimated reliability of a structure subjected to a constant-amplitude loading. *Reliability engineering & systems safety*. [Print ed.]. Oct. 2015, vol. 142, str. 238-247, ilustr. ISSN 0951-8320. DOI: [10.1016/j.ress.2015.05.026](https://doi.org/10.1016/j.ress.2015.05.026). [COBISS.SI-ID [14035739](https://www.cobiss.si/record/14035739)]

Kosel Tadej

1. PETROVIĆ, Igor, ŠAJN, Viktor, **KOSEL, Tadej**, MARZOCCA, Pier. Aerodynamics and static aeroelastic behavior of low-Reynolds number deformable membrane wings. *Journal of aerospace engineering*, ISSN 0893-1321, May 2016, vol. 29, iss. 3, str. 1-12, ilustr. [http://ascelibrary.org/doi/10.1061/\(ASCE\)AS.1943-5525.0000555](http://ascelibrary.org/doi/10.1061/(ASCE)AS.1943-5525.0000555), doi: 10.1061/(ASCE)AS.1943-5525.0000555. [COBISS.SI-ID [14280475](https://www.cobiss.si/record/14280475)]
2. VALENTA GREBENŠEK, Mirela, **KOSEL, Tadej**. Safety culture assessment : optimization of existing practice. *International journal for traffic and transport engineering : IJTTE*, ISSN 2217-544X. [Print ed.], 2015, vol. 5, iss. 4, str. 360-370, ilustr., doi: 10.7708/ijtte.2015.5(4).02. [COBISS.SI-ID [14545435](https://www.cobiss.si/record/14545435)]
3. VIŠNJIĆ, Goran, NOŽAK, Dejan, KOSEL, Franc, **KOSEL, Tadej**. Reducing shear-lag in thin-walled composite I-beam wing spars. *Aircraft Engineering*, ISSN 0002-2667, 2014, vol. 86, iss. 2, str. 89-98, doi:10.1108/AEAT-09-2012-0153. [COBISS.SI-ID [13607963](https://www.cobiss.si/record/13607963)]

Kunc Robert

1. **KUNC, Robert**, OMERVIĆ, Senad, AMBROŽ, Miha, PREBIL, Ivan. Comparative study of european tunnel emergency-stop-area-wall protection measures. *Accident analysis and prevention*. [Print ed.]. Feb. 2014, vol. 63, str. 9-21, ilustr. ISSN 0001-4575. DOI: 10.1016/j.aap.2013.10.020. [COBISS.SI-ID [13216027](https://www.cobiss.si/record/13216027)]
2. AMBROŽ, Miha (avtor dodatnega besedila), TRAJKOVSKI, Jovan, **KUNC, Robert**. Decelerations of passenger vehicles on gravel arrester beds. *Sustainability*. Mar. 2020, vol. 12, iss. 5, f. 1-13, ilustr. ISSN 2071-1050. <https://www.mdpi.com/2071-1050/12/5/1761>, DOI: 10.3390/su12051761. [COBISS.SI-ID [17057051](https://www.cobiss.si/record/17057051)]
3. TRAJKOVSKI, Jovan, PERENDA, Jasenko, **KUNC, Robert**. Blast response of light armoured vehicles (LAVs) with flat and V-hull floor. *Thin-walled structures*. Oct. 2018, vol. 131, str. 238-244, ilustr. ISSN 0263-8231. <https://www.sciencedirect.com/science/article/pii/S0263823117315793?via%3Dihub>, DOI: 10.1016/j.tws.2018.06.040. [COBISS.SI-ID [16149275](https://www.cobiss.si/record/16149275)]

Kušar Janez

1. JORDAN, Eva, **KUŠAR, Janez**, RIHAR, Lidija, BERLEC, Tomaž. Portfolio analysis of a lean six sigma production process. *Central European Journal of Operations Research*. 2019, vol. 27, iss. 3, str. 797-813, ilustr. ISSN 1435-246X. <https://link.springer.com/article/10.1007/s10100-019-00613-4>, DOI: [10.1007/s10100-019-00613-4](https://doi.org/10.1007/s10100-019-00613-4). [COBISS.SI-ID [16472091](https://www.cobiss.si/record/16472091)].
2. ZUPAN, Hugo, HERAKOVIČ, Niko, STARBEK, Marko, **KUŠAR, Janez**. Hybrid algorithm based on priority rules for simulation of workshop production. *International journal of simulation modelling*. Mar. 2016, vol. 15, nr. 1, str. 29-41, ilustr. ISSN 1726-4529. http://www.ijssimm.com/Full_Papers/Fulltext2016/text15-1_29-41.pdf, <http://www.ijssimm.com/Abstracts/Abstracts15-1.pdf>, DOI: [10.2507/IJSIMM15\(1\)3.319](https://doi.org/10.2507/IJSIMM15(1)3.319). [COBISS.SI-ID [14542875](https://www.cobiss.si/record/14542875)].
3. **KUŠAR, Janez**, RIHAR, Lidija, ŽARGI, Urban, STARBEK, Marko. Extended risk-analysis model for activities of the project. *SpringerPlus*. May 2013, vol. 2, str. 1-12, ilustr. ISSN 2193-1801. DOI: [10.1186/2193-1801-2-227](https://doi.org/10.1186/2193-1801-2-227). [COBISS.SI-ID [12916251](https://www.cobiss.si/record/12916251)].

Medved Sašo

1. ŠUKLJE, Tomaž, HAMDY, Mohamed, ARKAR, Ciril, HENSEN, Jan, **MEDVED, Sašo**. An inverse modelling approach for the thermal response modelling of green façades. *Applied energy*, ISSN 0306-2619, Feb. 2019, vol. 235, str. 1447-1456. [COBISS.SI-ID [16368155](https://www.cobiss.si/record/16368155)]
2. **MEDVED, Sašo**, BEGELJ, Žiga, DOMJAN, Suzana, ŠUKLJE, Tomaž, ČERNE, Boštjan, ARKAR, Ciril. The dynamic thermal response model and energy performance of multi-layer glass and BIPV facade structures. *Energy and*

- buildings*. [Print ed.]. Apr. 2019, vol. 188/189, str. 239-251, ilustr. ISSN 0378-7788. [COBISS.SI-ID 16497179]
3. DOMJAN, Suzana, ARKAR, Ciril, BEGELJ, Žiga, **MEDVED, Sašo**. Evolution of all-glass nearly zero energy buildings with respect to the local climate and free-cooling techniques. *Building and environment*. [Print ed.]. 2019, vol. 160, str. 1-15, ilustr. ISSN 0360-1323. [COBISS.SI-ID 16653339]

Nagode Marko

1. PANIČ, Branislav, KLEMENC, Jernej, **NAGODE, Marko**. Improved initialization of the EM algorithm for mixture model parameter estimation. *Mathematics*. 2020, vol. 8, iss. 3, str. 1-29, ilustr. ISSN 2227-7390. <https://www.mdpi.com/2227-7390/8/3/373/htm#>, DOI: [10.3390/math8030373](https://doi.org/10.3390/math8030373). [COBISS.SI-ID 17112347]
2. OMAN, Simon, **NAGODE, Marko**. The influence of piston shape on air-spring fatigue life. *Fatigue & fracture of engineering materials & structures*. 2018, vol. 41, iss. 5, str. 1019-1031, ilustr. ISSN 8756-758X. <http://onlinelibrary.wiley.com/doi/10.1111/ffe.12748/epdf>, DOI: [10.1111/ffe.12748](https://doi.org/10.1111/ffe.12748). [COBISS.SI-ID 15773211]
3. ŠERUGA, Domen, **NAGODE, Marko**, KLEMENC, Jernej. Eliminating friction between flat specimens and an antibuckling support during cyclic tests using a simple sensor. *Measurement science & technology*. [Print ed.]. 2019, vol. 30, no. 9, str. 1-15, ilustr. ISSN 0957-0233. <https://iopscience.iop.org/article/10.1088/1361-6501/ab1e35>, DOI: [10.1088/1361-6501/ab1e35](https://doi.org/10.1088/1361-6501/ab1e35). [COBISS.SI-ID 16600091]

Petkovšek Rok

1. AGREŽ, Vid, **PETKOVŠEK, Rok**. Highly adaptable gain-switched fiber laser with improved efficiency. *Optics express*, ISSN 1094-4087, 2019, vol. 27, no. 9, str. 12100-12109, ilustr. <https://www.osapublishing.org/oe/abstract.cfm?uri=oe-27-9-12100>, doi: [10.1364/OE.27.012100](https://doi.org/10.1364/OE.27.012100). [COBISS.SI-ID 16599835]
2. MUR, Jaka, PETELIN, Jaka, SCHILLE, Jörg, LOESCHNER, Udo, **PETKOVŠEK, Rok**. Ultra-fast laser-based surface engineering of conductive thin films. *Applied Surface Science*, ISSN 0169-4332. [Print ed.], apr. 2020, vol. 509, str. 1-7, ilustr. <https://www.sciencedirect.com/science/article/pii/S0169433219337286>, doi: [10.1016/j.apsusc.2019.144911](https://doi.org/10.1016/j.apsusc.2019.144911). [COBISS.SI-ID 17002523]
3. HORVAT, Darja, ORTHABER, Uroš, SCHILLE, Jörg, HARTWIG, L., LÖSCHNER, Udo, VREČKO, Andrej, **PETKOVŠEK, Rok**. Laser-induced bubble dynamics inside and near a gap between a rigid boundary and an elastic membrane. *International journal of multiphase flow*, ISSN 0301-9322, Mar. 2018, vol. 100, str. 119-126, ilustr. <https://www.sciencedirect.com/science/article/pii/S0301932216304098>, doi: [10.1016/j.ijmultiphaseflow.2017.12.010](https://doi.org/10.1016/j.ijmultiphaseflow.2017.12.010). [COBISS.SI-ID 15859483]

Pušavec Franci

1. **PUŠAVEC, Franci**, GRGURAŠ, Damir, KOCH, Matthias, KRAJNIK, Peter. Cooling capability of liquid nitrogen and carbon dioxide in cryogenic milling. *CIRP annals*, ISSN 0007-8506, 2019, vol. 68, iss. 1, str. 73-76, ilustr. <https://www.sciencedirect.com/science/article/pii/S0007850619300174>, doi: [10.1016/j.cirp.2019.03.016](https://doi.org/10.1016/j.cirp.2019.03.016). [COBISS.SI-ID 16614427]
2. GRGURAŠ, Damir, STERLE, Luka, KRAJNIK, Peter, **PUŠAVEC, Franci**. A novel cryogenic machining concept based on a lubricated liquid carbon dioxide. *International journal of machine tools & manufacture : Design, research and application*, ISSN 0890-6955. [Print ed.], Oct. 2019, vol. 145, str. 1-6, ilustr. <https://www.sciencedirect.com/science/article/pii/S0890695519307953?via%3DiHub>, doi: [10.1016/j.ijmachtools.2019.103456](https://doi.org/10.1016/j.ijmachtools.2019.103456). [COBISS.SI-ID 16781851]
3. **PUŠAVEC, Franci**, DESHPANDE, Ashish, YANG, Shu, M'SAUBI, Rachid, KOPAČ, Janez, DILLON, Oscar W., JAWAHIR, I. S. Sustainable machining of high temperature Nickel alloy - Inconel 718. Part 2, Chip breakability and optimization. *Journal of cleaner production*, ISSN 0959-6526. [Print ed.], Jan. 2015, vol. 87, str. 941-952, ilustr., doi: [10.1016/j.jclepro.2014.10.085](https://doi.org/10.1016/j.jclepro.2014.10.085). [COBISS.SI-ID 13790491]

Sekavčnik Mihael

1. STROPNIK, Rok, **SEKAVČNIK, Mihael**, FERRIZ, Ana María, MORI, Mitja. Reducing environmental impacts of the ups system based on PEM fuel cell with circular economy. *Energy*. [Print ed.]. 2018, vol. 165, part b, str. 824-835, ilustr. ISSN 0360-5442. <https://www.sciencedirect.com/science/article/pii/S0360544218319790?via%3DiHub>, DOI: [10.1016/j.energy.2018.09.201](https://doi.org/10.1016/j.energy.2018.09.201). [COBISS.SI-ID 16276763]
2. LOTRIČ, Andrej, **SEKAVČNIK, Mihael**, HOČEVAR, Stanjo. Effectiveness of heat-integrated methanol steam

reformer and polymer electrolyte membrane fuel cell stack systems for portable applications. *Journal of power sources*. Dec. 2014, vol. 270, str. 166-182, ilustr. ISSN 0378-7753. DOI: [10.1016/j.jpowsour.2014.07.072](https://doi.org/10.1016/j.jpowsour.2014.07.072). [COBISS.SI-ID [13635611](#)]

3. LACKO, Rok, DROBNIČ, Boštjan, MORI, Mitja, **SEKAVČNIK, Mihael**, VIDMAR, Marjan. Stand-alone renewable combined heat and power system with hydrogen technologies for household application. *Energy*. [Print ed.]. Dec. 2014, vol. 77, str. 164-170, ilustr. ISSN 0360-5442. DOI: [10.1016/j.energy.2014.05.110](https://doi.org/10.1016/j.energy.2014.05.110). [COBISS.SI-ID [13637147](#)]

Slavič Janko

1. VIRTANEN, Pauli, **SLAVIČ, Janko**, GOMMERS, Ralf, OLIPHANT, Travis E., HABERLAND, Matt, REDDY, Tyler, COURNAPEAU, David, BUROVSKI, Evgeni, PETERSON, Pearu, WECKESSER, Warren, et al. SciPy 1.0 : fundamental algorithms for scientific computing in Python. *Nature methods*, ISSN 1548-7091. [Print ed.], Mar. 2020, vol. 17, str. 261-272, ilustr. <https://www.nature.com/articles/s41592-019-0686-2#article-info>, doi: 10.1038/s41592-019-0686-2. [COBISS.SI-ID 17044763]
2. GORJUP, Domen, **SLAVIČ, Janko**, BOLTEŽAR, Miha. Frequency domain triangulation for full-field 3D operating-deflection-shape identification. *Mechanical systems and signal processing*, ISSN 0888-3270, Nov. 2019, vol. 133, str. 1-13, ilustr. <https://www.sciencedirect.com/science/article/pii/S0888327019305023>, doi: 10.1016/j.ymsp.2019.106287. [COBISS.SI-ID 16751899]
3. MRŠNIK, Matjaž, **SLAVIČ, Janko**, BOLTEŽAR, Miha. Vibration fatigue using modal decomposition. *Mechanical systems and signal processing*, ISSN 0888-3270, Jan. 2018, vol. 98, str. 548-556, ilustr. http://ac.els-cdn.com/S0888327017302728/1-s2.0-S0888327017302728-main.pdf?_tid=05277f10-46ab-11e7-8377-00000aab0f26&acdnat=1496308779_741233a7c58e44148923265c09da0eaa, doi: 10.1016/j.ymsp.2017.03.052. [COBISS.SI-ID 15513115]

Šarler Božidar

1. MAVRIČ, Boštjan, **ŠARLER, Božidar**. Equivalent-PDE based stabilization of strong-form meshless methods applied to advection-dominated problems. *Engineering analysis with boundary elements*. 2020, vol. 113, str. 315-327, ilustr. ISSN 0955-7997. <https://www.sciencedirect.com/science/article/pii/S0955799720300205?via%3Dihub>, DOI: [10.1016/j.enganabound.2020.01.014](https://doi.org/10.1016/j.enganabound.2020.01.014). [COBISS.SI-ID [17037339](#)]
2. ZAHOOR, Rizwan, REGVAR, Rok, BAJT, Saša, **ŠARLER, Božidar**. A numerical study on the influence of liquid properties on gas-focused micro-jets. *Progress in computational fluid dynamics*. 2020, vol. 20, no. 2, str. 1-13, ilustr. ISSN 1468-4349. <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=pcfd#82935>, DOI: [10.1504/PCFD.2019.10024215](https://doi.org/10.1504/PCFD.2019.10024215). [COBISS.SI-ID [16803867](#)]
3. ZAMOLO, Riccardo, NOBILE, Enrico, **ŠARLER, Božidar**. Novel multilevel techniques for convergence acceleration in the solution of systems of equations arising from RBF-FD meshless discretizations. *Journal of computational physics*. 2019, vol. 392, str. 311-334, ilustr. ISSN 0021-9991. <https://www.sciencedirect.com/science/article/pii/S0021999119303171>. [COBISS.SI-ID [16607003](#)]

Šturm Roman

1. **ŠTURM, Roman**, GRIMBERG, Raimond, SAVIN, Adriana, GRUM, Janez. Destructive and nondestructive evaluations of the effect of moisture absorption on the mechanical properties of polyester-based composites. *Composites.Part B, Engineering*. [Print ed.]. Mar. 2015, vol. 71, str. 10-16, ilustr. ISSN 1359-8368. DOI: [10.1016/j.compositesb.2014.11.022](https://doi.org/10.1016/j.compositesb.2014.11.022). [COBISS.SI-ID [13818395](#)]
2. ŽAGAR, Sebastjan, **ŠTURM, Roman**. Influence of grinding on the residual stress measurements of shot peened aluminum alloy AA7075. *Strojniški vestnik*. Jul./Avg. 2019, vol. 65, no. 7/8, str. 401-409, ilustr. ISSN 0039-2480. <https://www.sv-jme.eu/article/influence-of-grinding-on-the-residual-stress-measurements-of-shot-peened-aluminum-alloy-aa7075/>, DOI: [10.5545/sv-jme.2019.6083](https://doi.org/10.5545/sv-jme.2019.6083). [COBISS.SI-ID [16702235](#)]
3. RAVNIKAR, Dunja, TRDAN, Uroš, NAGODE, Aleš, **ŠTURM, Roman**. Energy density effect of laser alloyed TiB₂/TiC/Al composite coatings on LMZ/HAZ, mechanical and corrosion properties. *Metals*. 2020, iss. 3, vol. 10, str. 1-19, ilustr. ISSN 2075-4701. <https://www.mdpi.com/2075-4701/10/3/411/htm>, DOI: [10.3390/met10030411](https://doi.org/10.3390/met10030411). [COBISS.SI-ID [17102363](#)]

Nikola Vukašinić

1. URBAS, Uroš, ZORKO, Damijan, ČERNE, Borut, TAVČAR, Jože, **VUKAŠINOVIĆ, Nikola**. A method for enhanced

polymer spur gear inspection based on 3D optical metrology. *Measurement : journal of the International Measurement Confederation*. [Print ed.]. Feb. 2021, vol. 169, str. 1-14, ilustr. ISSN 0263-2241.

<https://www.sciencedirect.com/science/article/pii/S0263224120311052>, DOI:

10.1016/j.measurement.2020.108584. [COBISS.SI-ID [32573699](#)], [JCR, SNIP, WoS do 22. 11. 2021: št. citatov (TC): 10, čistih citatov (CI): 4, čistih citatov na avtorja (CIAu): 0,80, Scopus do 4. 2. 2022: št. citatov (TC): 11, čistih citatov (CI): 6, čistih citatov na avtorja (CIAu): 1,20]

2. URBAS, Uroš, ZORKO, Damijan, **VUKAŠINOVIĆ, Nikola**. Machine learning based nominal root stress calculation model for gears with a progressive curved path of contact. *Mechanism and machine theory*. Nov. 2021, vol. 165, str. 1-14, ilustr. ISSN 0094-114X. <https://www.sciencedirect.com/science/article/pii/S0094114X21001889>, DOI: [10.1016/j.mechmachtheory.2021.104430](#). [COBISS.SI-ID [69206531](#)], [JCR, SNIP, WoS]
3. URBAS, Uroš, VRABIČ, Rok, **VUKAŠINOVIĆ, Nikola**. Displaying product manufacturing information in augmented reality for inspection. V: BUTALA, Peter (ur.), GOVEKAR, Edvard (ur.), VRABIČ, Rok (ur.). *52nd CIRP Conference on Manufacturing Systems (CMS), Ljubljana, Slovenia, June 12-14, 2019*. Amsterdam: Elsevier, 2019. Vol. 81, f. 832-837, ilustr. *Procedia CIRP*, vol. 81. ISSN 2212-8271. <https://www.sciencedirect.com/science/article/pii/S221282711930513X>, DOI: [10.1016/j.procir.2019.03.208](#). [COBISS.SI-ID [16675611](#)], [SNIP, WoS]
4. KRIŽAJ, David, **VUKAŠINOVIĆ, Nikola**. Analysis of implementation of MBD and STEP AP242 standard into modern CAD tools. V: VALENTINČIČ, Joško (ur.), LEVY, Paul R. (ur.), SABOTIN, Izidor (ur.). *The MIT International Conference 2018, 12th - 15th September, 2018 Izola, Slovenia*. Târgu Jiu: [s. n.], 2019. Vol. 17, no. 1, ilustr. *Research and Science Today Supplement*, no. 1. ISSN 2344-0007. <https://www.rstjournal.com/?mdocs-file=2515>. [COBISS.SI-ID [16768795](#)]
5. ČAKŠ, Žiga, ČORLUKA, Željko, DUHOVNIK, Jože, KOKELJ, Gašper, KRAJNC, Matija, LEJLA, Vida, OSELI, Alen, SOMOGYVÁRI, Mónika, VERDEGUER LOPEZ, Javier, **VUKAŠINOVIĆ, Nikola**. *Handkuchengerät mit zwei Abtrieben = Hand-held kitchen appliance with two drives : Europäische Patentschrift EP2394546 (B1)*, 2018-08-08. München: Europäisches Patentamt, 2018. 17 f., ilustr. [COBISS.SI-ID [12125723](#)] patentna družina: EP2394546 (A1), 2011-12-14; DE102010029963, 2010-06-10; DE102011077334 (A1), 2011-12-29; ES2689111 (T3), 2018-11-08; SI/EP2394546 (T1), 2018-11-30

Klobčar Damjan

1. SKUMAVC, Andrej, TUŠEK, Janez, NAGODE, Aleš, **KLOBČAR, Damjan**. Thermal fatigue study of tungsten alloy WNi28Fe15 clad on AISI H13 hot work tool steel. *Surface & coatings technology*. [Print ed.]. Jan. 2016, vol. 285, str. 304-311, ilustr. ISSN 0257-8972. DOI: [10.1016/j.surfcoat.2015.09.044](#). [COBISS.SI-ID [14404123](#)]
2. BALOŠ, Sebastian, DRAMIČANIN, Miroslav D., JANJATOVIĆ, Petar, ZABUNOV, Ivan, **KLOBČAR, Damjan**, BUŠIĆ, Matija, GRILLI, Maria Luisa. Metal oxide nanoparticle-based coating as a catalyzer for A-TIG welding : critical raw material perspective. *Metals*. 2019, vol. 9, iss. 5, f. 1-12, ilustr. ISSN 2075-4701. <https://www.mdpi.com/2075-4701/9/5/567>, DOI: [10.3390/met9050567](#). [COBISS.SI-ID [16623131](#)]
3. **KLOBČAR, Damjan**, TUŠEK, Janez, SMOLEJ, Anton, SIMONČIČ, Samo. Parametric study of FSSW of aluminium alloy 5754 using a pinless tool. *Welding in the world*. Mar. 2015, vol. 59, iss. 2, str. 269-281, ilustr. ISSN 0043-2288. DOI: [10.1007/s40194-014-0208-x](#). [COBISS.SI-ID [13806875](#)]

Kramar Davorin

1. CICA, Djordje, **KRAMAR, Davorin**. Multi-objective optimization of high-pressure jet-assisted turning of Inconel 718. *International journal of advanced manufacturing technology*, ISSN 0268-3768, Dec. 2019, vol. 105, iss. 11, str. 4731-4745, ilustr. <https://link.springer.com/article/10.1007%2Fs00170-019-04513-4>, doi: [10.1007%2Fs00170-019-04513-4](#). [COBISS.SI-ID [16992027](#)]
2. HAFNER, Rok, GRGURAŠ, Damir, **KRAMAR, Davorin**. Milling process optimization for the best surface coat adhesion of the rigid polyurethane foam. *Journal of polymer engineering*, ISSN 0334-6447, 2018, vol. 38, iss. 10, f. 995-1005, ilustr. <https://www.degruyter.com/view/j/polyeng.ahead-of-print/polyeng-2018-0035/polyeng-2018-0035.xml>, doi: [doi.org/10.1515/polyeng-2018-0035](#). [COBISS.SI-ID [16114203](#)]
3. ÇALŞKAN, Halil, KURBANOĞLU, Cahit, PANJAN, Peter, **KRAMAR, Davorin**. Investigation of the performance of carbide cutting tools with hard coatings in hard milling based on the response surface methodology. *International journal of advanced manufacturing technology*, ISSN 0268-3768, 2013, vol. 66, no. 5-8, str. 883-893, doi: [10.1007/s00170-012-4374-y](#). [COBISS.SI-ID [26698279](#)]

Kutin Jože

1. SVETE, Andrej, **KUTIN, Jože**. Experimental validation of an improved mathematical model for pneumatic pressure measurement systems with connecting tubes. *Measurement science & technology*. [Print ed.]. 2020, vol. 31, no. 1, str. 1-10, ilustr. ISSN 0957-0233. <https://iopscience.iop.org/article/10.1088/1361-6501/ab3d50/meta>, DOI: [10.1088/1361-6501/ab3d50](https://doi.org/10.1088/1361-6501/ab3d50). [COBISS.SI-ID [16933147](#)]
2. **KUTIN, Jože**, BOBOVNIK, Gregor, BAJSIČ, Ivan. Heat exchange effects on the performance of a clearance-sealed piston prover for gas flow measurements. *Metrologia*. 2015, vol. 52, nr. 6, str. 857-863, ilustr. ISSN 0026-1394. DOI: [10.1088/0026-1394/52/6/857](https://doi.org/10.1088/0026-1394/52/6/857). [COBISS.SI-ID [14310427](#)]
3. RUPNIK, Klemen, **KUTIN, Jože**, BAJSIČ, Ivan. Identification and prediction of the dynamic properties of resistance temperature sensors. *Sensors and actuators.A, Physical*. 2013, vol. 197, str. 69-75, ilustr. ISSN 0924-4247. DOI: [10.1016/j.sna.2013.03.039](https://doi.org/10.1016/j.sna.2013.03.039). [COBISS.SI-ID [12775451](#)]

Majdič Franc

1. **MAJDIČ, Franc**, VELKAVRH, Igor, KALIN, Mitjan. Improving the performance of a proportional 4/3 waterhydraulic valve by using a diamond-like-carbon coating. *Wear*, ISSN 0043-1648. Jan. 2013, vol. 297, iss. 1/2, str. 1016-1024, SCI, 1A1
2. STRMČNIK, Ervin, **MAJDIČ, Franc**, KALIN, Mitjan. Water-lubricated behaviour of AISI 440C stainless steel and a DLC coating for an orbital hydraulic motor application. *Tribology international*, ISSN 0301-679X. Mar. 2019, vol. 131, str. 128-136, SCI, 1A1
3. STRMČNIK, E., **MAJDIČ, F.** The pressure and efficiency characteristic of hydraulic gerotor motor with the floating outer ring. *Tehnički vjesnik*, ISSN 1330-3651, Apr. 2018, vol. 25, nr. 2. SCI, 1A4

Podržaj Primož

1. FINŽGAR, Miha, **PODRŽAJ, Primož**. Feasibility of assessing ultra-short-term pulse rate variability from video recordings. *PeerJ*. Jan. 2020, vol. 8, f. 1-26, ilustr. ISSN 2167-8359. <https://peerj.com/articles/8342/>, DOI: [10.7717/peerj.8342](https://doi.org/10.7717/peerj.8342). [COBISS.SI-ID [17000731](#)]
2. DOI, Shunsuke, IMAI, Yoshiro, KAGAWA, Koji, OHNO, Asako, **PODRŽAJ, Primož**, HATTORI, Tetsuo. Proposal and development of web-based programming educational system with error analysis and visualization. *Denki gakkai ronbunshi = : IEEJ transactions on electronics, information and systems.C, Denshi joho shisutemu bumonshi*. 2019, vol. 139, no. 11, f. 1241-1247, ilustr. ISSN 1348-8155. https://www.jstage.jst.go.jp/article/ieejieiss/139/11/139_1241/_article/-char/en, DOI: [10.1541/ieejieiss.139.1241](https://doi.org/10.1541/ieejieiss.139.1241). [COBISS.SI-ID [16891931](#)]
3. FINŽGAR, Miha, **PODRŽAJ, Primož**. A wavelet-based decomposition method for a robust extraction of pulse rate from video recordings. *PeerJ*. Nov. 2018, vol. 6, f. 1-26, ilustr. ISSN 2167-8359. <https://peerj.com/articles/5859/>, DOI: [10.7717/peerj.5859](https://doi.org/10.7717/peerj.5859). [COBISS.SI-ID [16366363](#)]

Prezelj Jurij

1. NOVAKOVIĆ, Tadej, OGRIS, Miha, **PREZELJ, Jurij**. Validating impeller geometry optimization for sound quality based on psychoacoustics metrics. *Applied acoustics*. [Print ed.]. Jan. 2020, vol. 157, str. 1-6, ilustr. ISSN 0003-682X. <https://www.sciencedirect.com/science/article/pii/S0003682X18309666>, DOI: [10.1016/j.apacoust.2019.107013](https://doi.org/10.1016/j.apacoust.2019.107013). [COBISS.SI-ID [16837659](#)]
2. **PREZELJ, Jurij**, NOVAKOVIĆ, Tadej. Centrifugal fan with inclined blades for vacuum cleaner motor. *Applied acoustics*. [Print ed.]. Nov. 2018, vol. 140, str. 13-23, ilustr. ISSN 0003-682X. <https://www.sciencedirect.com/science/article/pii/S0003682X17311118>, DOI: [10.1016/j.apacoust.2018.05.010](https://doi.org/10.1016/j.apacoust.2018.05.010). [COBISS.SI-ID [16054555](#)]
3. MUROVEC, Jure, **PREZELJ, Jurij**, ČUROVIĆ, Luka, NOVAKOVIĆ, Tadej. Microphone array based automated environmental noise measurement system. *Applied acoustics*. [Print ed.]. 2018, vol. 141, str. 106-114, ilustr. ISSN 0003-682X. <https://www.sciencedirect.com/science/article/pii/S0003682X18300756>, DOI: [10.1016/j.apacoust.2018.07.004](https://doi.org/10.1016/j.apacoust.2018.07.004). [COBISS.SI-ID [16155163](#)]

Slemenik Perše Lidija

1. OSELI, Alen, PRODAN, Ted, SUSIČ, Egon, **SLEMENIK PERŠE, Lidija**. The effect of short fiber orientation on long term shear behavior of 40% glass fiber reinforced polyphenylene sulfide. *Polymer testing*. [Print ed.]. Jan. 2020,

vol. 81, str. 1-12, ilustr. ISSN 0142-9418.

<https://www.sciencedirect.com/science/article/pii/S0142941819316538?via%3Dihub>, DOI: [10.1016/j.polymertesting.2019.106262](https://doi.org/10.1016/j.polymertesting.2019.106262). [COBISS.SI-ID [16981019](https://www.cobiss.si/record/16981019)]

2. **SLEMENIK PERŠE, Lidija**, HUSKIĆ, Miroslav. Rheological characterization of multiarm star copolymers. *European Polymer Journal*. [Print ed.]. Mar. 2016, vol. 76, str. 188-195. ISSN 0014-3057. <http://www.sciencedirect.com/science/article/pii/S0014305716300453/pdf?md5=a6d369cbad988b50a18bb36cc1855544&pid=1-s2.0-S0014305716300453-main.pdf>, DOI: [.1016/j.eurpolymj.2016.01.045](https://doi.org/10.1016/j.eurpolymj.2016.01.045). [COBISS.SI-ID [5862682](https://www.cobiss.si/record/5862682)]
3. **SLEMENIK PERŠE, Lidija**, MIHELČIČ, Mohor, OREL, Boris. Rheological and optical properties of solar absorbing paints with POSS-treated pigments. *Materials chemistry and physics*. [Print ed.]. Jan. 2015, vol. 149/150, str. 368-377. ISSN 0254-0584. http://ac.els-cdn.com/S0254058414006828/1-s2.0-S0254058414006828-main.pdf?tid=2e86e240-7563-11e4-8658-00000aacb361&acdnat=1417003137_ba8d5da662012336ae2203582f409cb8, DOI: [10.1016/j.matchemphys.2014.10.031](https://doi.org/10.1016/j.matchemphys.2014.10.031). [COBISS.SI-ID [5607706](https://www.cobiss.si/record/5607706)]

Stritih Uroš

1. **STRITIH, Uroš**, ZAVRL, Eva, PAKSOY, Halime. Energy analysis and carbon saving potential of a complex heating system with solar assisted heat pump and phase change material (PCM) thermal storage in different climatic conditions. *European journal of sustainable development research*. 2019, vol. 3, iss. 1., f. 1-17, ilustr. ISSN 2542-4742. <http://www.lectitopublishing.nl/download/energy-analysis-and-carbon-saving-potential-of-a-complex-heating-system-with-solar-assisted-heat-3930.pdf>, DOI: [10.20897/ejosdr/3930](https://doi.org/10.20897/ejosdr/3930). [COBISS.SI-ID [16341019](https://www.cobiss.si/record/16341019)]
2. STROPNIK, Rok, KOŽELJ, Rok, ZAVRL, Eva, **STRITIH, Uroš**. Improved thermal energy storage for nearly zero energy buildings with PCM integration. *Solar energy*. [Print ed.]. Sep. 2019, vol. 190, str. 420-426, ilustr. ISSN 0038-092X. <https://www.sciencedirect.com/science/article/pii/S0038092X19308229>, DOI: [10.1016/j.solener.2019.08.041](https://doi.org/10.1016/j.solener.2019.08.041). [COBISS.SI-ID [16754715](https://www.cobiss.si/record/16754715)]
3. **STRITIH, Uroš**, TYAGI, V. V., STROPNIK, Rok, PAKSOY, Halime, HAGHIGHAT, Fariborz, JOYBARI, Mahmood Mastani. Integration of passive PCM technologies for net-zero energy buildings. *Sustainable cities and society*. [Spletna izd.]. Aug. 2018, vol. 41, str. 286-295, ilustr. ISSN 2210-6715. <http://onlinelibrary.wiley.com/doi/10.1111/ffe.12804/epdf>, DOI: [10.1016/j.scs.2018.04.036](https://doi.org/10.1016/j.scs.2018.04.036). [COBISS.SI-ID [16096539](https://www.cobiss.si/record/16096539)]

Valentinčič Joško

1. **VALENTINČIČ, Joško**, PRIJATELJ, Miha, JERMAN, Marko, LEBAR, Andrej, SABOTIN, Izidor. Characterization of a custom-made digital light processing stereolithographic printer based on a slanted groove micromixer geometry. *Journal of micro- and nano-manufacturing*, ISSN 2166-0468. [Print ed.], Mar. 2020, vol. 8, str. 010911-1- 010911-6, doi: [10.1115/1.4046044](https://doi.org/10.1115/1.4046044). [COBISS.SI-ID [17038363](https://www.cobiss.si/record/17038363)]
2. GOTOVAC, Gorazd, DETELA, Andrej, LAMPIČ, Gorazd, **VALENTINČIČ, Joško**. Analytical and FEM approach to reduce the cogging torque in in-wheel motors. *Electrical engineering*, ISSN 0948-7921. [Print ed.], Apr. 2015, vol. 97, str. 269-275, doi: [10.1007/s00202-015-0334-5](https://doi.org/10.1007/s00202-015-0334-5). [COBISS.SI-ID [13945371](https://www.cobiss.si/record/13945371)]
3. BISSACCO, Giuliano, HANSEN, H.N., TRISTO, Gianluca, **VALENTINČIČ, Joško**. Feasibility of wear compensation in micro EDM milling based on discharge counting and discharge population characterization. *CIRP annals*, ISSN 0007-8506, 2011, vol. 60, iss. 1, str. 231-234, doi: [10.1016/j.cirp.2011.03.064](https://doi.org/10.1016/j.cirp.2011.03.064). [COBISS.SI-ID [11959579](https://www.cobiss.si/record/11959579)]

Bombač Andrej

1. **BOMBAČ, Andrej**, REK, Zlatko, LEVEC, Janez. Void fraction distribution in a bisectional bubble column reactor. *AIChE journal*, ISSN 1547-5905. [Online ed.], Apr. 2019, vol. 65, iss. 4, str. 1186-1197, ilustr. <https://onlinelibrary.wiley.com/doi/epdf/10.1002/aic.16534>, doi: [10.1002/aic.16534](https://doi.org/10.1002/aic.16534). [COBISS.SI-ID [16463387](https://www.cobiss.si/record/16463387)]
2. **BOMBAČ, Andrej**, PIRNAR, Jernej. Numerical and experimental analyses of a stirred vessel for a large volumetric flow rate of sparged air. *Chinese journal of chemical engineering*, ISSN 1004-9541, 2019, vol. 27, iss. 10, str. 2304-2312, ilustr. <https://www.sciencedirect.com/science/article/pii/S1004954118314204?via%3Dihub>, doi: [10.1016/j.cjche.2019.03.009](https://doi.org/10.1016/j.cjche.2019.03.009). [COBISS.SI-ID [16556827](https://www.cobiss.si/record/16556827)]
3. PIRNAR, Jernej, ŠIROK, Brane, **BOMBAČ, Andrej**. Effect of airway surface liquid on the forces on the pharyngeal wall : experimental fluid-structure interaction study. *Journal of biomechanics*, ISSN 0021-9290. [Print ed.], Oct. 2017, vol. 63, str. 117-124, ilustr. <https://ac.els-cdn.com/S0021929017304256/1-s2.0-S0021929017304256-main.pdf?tid=5675a9e4-ace7-11e7-bd92->

[0000aacb362&acdnat=1507549705_3545784e854ed245a0807ee62d15b40d](https://doi.org/10.1016/j.jbiomech.2017.08.014), doi:
[10.1016/j.jbiomech.2017.08.014](https://doi.org/10.1016/j.jbiomech.2017.08.014). [COBISS.SI-ID [15693339](https://doi.org/10.1016/j.jbiomech.2017.08.014)]

Bračun Drago

1. **BRAČUN, Drago**, SELAK, Luka. Optical probing for CNC machining of large parts made from fiber-reinforced polymer composite materials. *International journal of advanced manufacturing technology*, ISSN 0268-3768, 2019, vol. 100, iss. 5/8, str. 1855-1865, ilustr. <https://link.springer.com/content/pdf/10.1007%2Fs00170-018-2789-9.pdf>, doi: [10.1007/s00170-018-2789-9](https://doi.org/10.1007/s00170-018-2789-9). [COBISS.SI-ID [16273435](https://doi.org/10.1007/s00170-018-2789-9)]
2. **BRAČUN, Drago**, ŠKULJ, Gašper, KADIŠ, Miran. Spectral selective and difference imaging laser triangulation measurement system for on line measurement of large hot workpieces in precision open die forging. *International journal of advanced manufacturing technology*, ISSN 0268-3768, apr. 2017, vol. 90, iss. 1-4, 917-926 str, ilustr. <http://link.springer.com/article/10.1007%2Fs00170-016-9460-0>, doi: [10.1007/s00170-016-9460-0](https://doi.org/10.1007/s00170-016-9460-0). [COBISS.SI-ID [14855195](https://doi.org/10.1007/s00170-016-9460-0)].
3. **BRAČUN, Drago**, SLUGA, Alojzij. Stereo vision based measuring system for online welding path inspection. *Journal of materials processing technology*, ISSN 0924-0136, Sep. 2015, vol. 223, str. 328-336, ilustr., doi: [10.1016/j.jmatprotec.2015.04.023](https://doi.org/10.1016/j.jmatprotec.2015.04.023). [COBISS.SI-ID [13971995](https://doi.org/10.1016/j.jmatprotec.2015.04.023)].

Jerman Boris

1. HLADNIK, Jurij, **JERMAN, Boris**. Advanced finite element cross-country ski boot model for mass optimization directions considering flexion stiffness. *Proceedings of the Institution of Mechanical Engineers.Part P, Journal of sports engineering and technology (Print)*. 2018, vol. 232, iss. 3, str. 264-274, ilustr. ISSN 1754-3371. <https://journals.sagepub.com/doi/abs/10.1177/1754337117745238?journalCode=pipa>, DOI: [10.1177/1754337117745238](https://doi.org/10.1177/1754337117745238). [COBISS.SI-ID [15789083](https://doi.org/10.1177/1754337117745238)]
2. HLADNIK, Jurij, SUPEJ, Matej, **JERMAN, Boris**. Force measurement system for roller-ski skating. *Tehnički vjesnik*. Lis. 2018, vol. 25, nr. 5, f. 1291-1297, ilustr. ISSN 1848-6339. <https://hrcak.srce.hr/207425>, DOI: [10.17559/TV-20161219111250](https://doi.org/10.17559/TV-20161219111250). [COBISS.SI-ID [15536923](https://doi.org/10.17559/TV-20161219111250)]
3. **JERMAN, Boris**, HRIBAR, Anton. Dynamics of the mathematical pendulum suspended from a moving mass. *Tehnički vjesnik : znanstveno-stručni časopis tehničkih fakulteta Sveučilišta u Osijeku*. 2013, vol. 20, no. 1, str. 59-64, ilustr. ISSN 1330-3651. http://hrcak.srce.hr/index.php?show=clanak&id_clanak_jezik=143490. [COBISS.SI-ID [12724251](https://doi.org/10.1016/j.jmatprotec.2014.03.017)]

Mole Nikolaj

1. KREBELJ, Kristjan, HALILOVIČ, Miroslav, **MOLE, Nikolaj**. The cooling rate dependence of the specific volume in amorphous plastic injection molding. *International journal of advanced manufacturing technology*. 2019, vol. 103, iss. 1/4, str. 1175-1184, ilustr. ISSN 0268-3768. <https://link.springer.com/article/10.1007%2Fs00170-019-03617-1>, DOI: [10.1007/s00170-019-03617-1](https://doi.org/10.1007/s00170-019-03617-1). [COBISS.SI-ID [16570395](https://doi.org/10.1007/s00170-019-03617-1)]
2. **MOLE, Nikolaj**, KREBELJ, Kristjan, ŠTOK, Boris. Injection molding simulation with solid semi-crystalline polymer mechanical behavior for ejection analysis. *The international journal of advanced manufacturing technology*. dec. 2017, vol. 93, iss. 9-12, str. 4111-4124, ilustr. ISSN 1433-3015. <https://link.springer.com/article/10.1007/s00170-017-0847-3>, DOI: [10.1007/s00170-017-0847-3](https://doi.org/10.1007/s00170-017-0847-3). [COBISS.SI-ID [15602459](https://doi.org/10.1007/s00170-017-0847-3)]
3. **MOLE, Nikolaj**, CAFUTA, Gašper, ŠTOK, Boris. A 3D forming tool optimisation method considering springback and thinning compensation. *Journal of materials processing technology*. Aug. 2014, vol. 214, iss. 8, str. 1673-1685, ilustr. ISSN 0924-0136. DOI: [10.1016/j.jmatprotec.2014.03.017](https://doi.org/10.1016/j.jmatprotec.2014.03.017). [COBISS.SI-ID [13403419](https://doi.org/10.1016/j.jmatprotec.2014.03.017)]

Pepelnjak Tomaž

1. BORIĆ, Andrej, KALEDOVÁ, Alena, URBANEK, Michal, **PEPELNJAK, Tomaž**. Characterisation of polyamide (PA)12 nanocomposites with montmorillonite (MMT) filler clay used for the incremental forming of sheets. *Polymers*, ISSN 2073-4360, Jul. 2019, vol. 11, iss. 8, f. 1-15, ilustr. <https://www.mdpi.com/2073-4360/11/8/1248/pdf>, doi: [10.3390/polym11081248](https://doi.org/10.3390/polym11081248). [COBISS.SI-ID [16803611](https://doi.org/10.3390/polym11081248)]
2. **PEPELNJAK, Tomaž**, ŠAŠEK, Patricia, KUDLÁČEK, Jan. Upsetting analysis of high-strength tubular specimens with the Taguchi method. *Metals*, ISSN 2075-4701, Nov. 2016, vol. 6, iss. 11, f. 1-14, ilustr. <http://www.mdpi.com/2075-4701/6/11/257/html>, doi: [10.3390/met6110257](https://doi.org/10.3390/met6110257). [COBISS.SI-ID [15008283](https://doi.org/10.3390/met6110257)]
3. **PEPELNJAK, Tomaž**, KAYHAN, Erdem, KAFTANOĞLU, B. Analysis of non-isothermal warm deep drawing of dual-

phase DP600 steel. *International journal of material forming*, ISSN 1960-6206, Mar. 2019, vol. 12, iss.2, str. 223-240, ilustr. <https://link.springer.com/article/10.1007/s12289-018-1400-0>, doi: [10.1007/s12289-018-1400-0](https://doi.org/10.1007/s12289-018-1400-0). [COBISS.SI-ID [15859227](#)]

Senegačnik Andrej

1. JURJEVČIČ, Boštjan, **SENEGAČNIK, Andrej**, DROBNIČ, Boštjan, KUŠTRIN, Igor. The Characterization of pulverized-coal pneumatic transport using an array of intrusive electrostatic sensors. *IEEE transactions on instrumentation and measurement*. [Print ed.]. Dec. 2015, vol. 64, no. 12, str. 3434-3443, ilustr. ISSN 0018-9456. DOI: [10.1109/TIM.2015.2465731](https://doi.org/10.1109/TIM.2015.2465731). [COBISS.SI-ID [14196507](#)]
2. SMREKAR, Jure, POTOČNIK, Primož, **SENEGAČNIK, Andrej**. Multi-step-ahead prediction of NOx emissions for a coal-based boiler. *Applied energy*. Jun. 2013, vol. 106, str. 89-99, ilustr. ISSN 0306-2619. DOI: [10.1016/j.apenergy.2012.10.056](https://doi.org/10.1016/j.apenergy.2012.10.056). [COBISS.SI-ID [12669211](#)]
3. **SENEGAČNIK, Andrej**, OMAN, Janez, ŠIROK, Brane. Analysis of calcination parameters and the temperature profile in an annular shaft kiln. Part 1: Theoretical survey. *Applied thermal engineering*. [Print ed.]. 2007, letn. 27, št. 8/9, str. 1467-1472. ISSN 1359-4311. <http://dx.doi.org/10.1016/applthermaleng.2006.10.001>. [COBISS.SI-ID [9747995](#)]

Vrabič Rok

1. **VRABIČ, Rok**, KOZJEK, Dominik, MALUS, Andreja, ZALETELJ, Viktor, BUTALA, Peter. Distributed control with rationally bounded agents in cyber-physical production systems. *CIRP annals*, ISSN 0007-8506, 2018, vol. 67, iss. 1, str. 507-510, ilustr. <https://www.sciencedirect.com/science/article/pii/S0007850618300611>, doi: [10.1016/j.cirp.2018.04.037](https://doi.org/10.1016/j.cirp.2018.04.037). [COBISS.SI-ID [16026651](#)]
2. KOZJEK, Dominik, **VRABIČ, Rok**, ERŽEN, Gregor, BUTALA, Peter. Identifying the business and social networks in the domain of production by merging the data from heterogeneous internet sources. *International journal of production economics*, ISSN 0925-5273. [Print ed.], Jun. 2018, vol. 200, str. 181-191, ilustr. <https://www.sciencedirect.com/science/article/pii/S0925527318301518>, doi: [10.1016/j.ijpe.2018.03.026](https://doi.org/10.1016/j.ijpe.2018.03.026). [COBISS.SI-ID [15977243](#)]
3. KOZJEK, Dominik, **VRABIČ, Rok**, RIHTARŠIČ, Borut, LAVRAČ, Nada, BUTALA, Peter. Advancing manufacturing systems with big-data analytics : a conceptual framework. *International journal of computer integrated manufacturing*, ISSN 0951-192X. [Print ed.], 2020, vol. 33, no. 2, str.169-188, ilustr. <https://www.tandfonline.com/doi/full/10.1080/0951192X.2020.1718765>, doi: [10.1080/0951192X.2020.1718765](https://doi.org/10.1080/0951192X.2020.1718765). [COBISS.SI-ID [17034523](#)]

Žerovnik Janez

1. YE, Ansheng, MIAO, Fang, SHAO, Zehui, LIU, Jia-Bao, **ŽEROVNIK, Janez**, REPOLUSK, Polona. More results on the domination number of Cartesian product of two directed cycles. *Mathematics*, ISSN 2227-7390, 2019, vol. 7, no. 2, str. 1-9, doi: [10.3390/math7020210](https://doi.org/10.3390/math7020210). [COBISS.SI-ID [24462088](#)]
2. KALJUN, David, NOVAK, Tina, **ŽEROVNIK, Janez**. Improved approximation of spatial light distribution. *PloS one*, ISSN 1932-6203, Apr. 2017, vol. 12, nr. 4, f. 1-16, ilustr. <http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0176252>, doi: [10.1371/journal.pone.0176252](https://doi.org/10.1371/journal.pone.0176252). [COBISS.SI-ID [15491355](#)]
3. ERVEŠ, Rija, **ŽEROVNIK, Janez**. Mixed fault diameter of Cartesian graph bundles II. *Ars mathematica contemporanea*, ISSN 1855-3966. [Tiskana izd.], 2015, vol. 8, no. 2, str. 245-258. <http://amc-journal.eu/index.php/amc/article/view/390>. [COBISS.SI-ID [18419478](#)]