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Education Information

Doctorate, Katholieke Universiteit Leuven, Makine Müh., Belgium 2006 - 2011
Postgraduate, University Of British Columbia {British Columbia}, Uygulamalı Bilim, Canada 2002 - 2004
Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1998 - 2002

Dissertations

Doctorate, Manufacturing combining Selective Laser Melting (SLM) and Selective Laser Erosion (SLE) / Laser Re-melting, Katholieke Universiteit Leuven, Makine Müh., 2011
Postgraduate, Mathematical modeling, measurement and correction of volumetric errors in three-axis machine tools, University Of British Columbia {British Columbia}, Uygulamalı Bilim, 2004

Research Areas

Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Makina Müh.Bölümü, 2017 - Continues

Academic and Administrative Experience

Eskisehir Osmangazi University, Merkezi Araştırma Laboratuvarı Uygulama Ve Araştırma Merkezi, 2017 - Continues

Courses

Technical English, Undergraduate, 2017 - 2018
Fundamentals of Computer Programming, Undergraduate, 2017 - 2018
Differential Equations, Undergraduate, 2017 - 2018
İleri İmalat Teknolojileri, Undergraduate, 2017 - 2018

Advising Theses

Kuşhan M. C., Yasa E., A Study on the Effect of Varying Selective Laser Melting Process Parameters by Build Process Simulation, Postgraduate, P.RUGU(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Biomimetic dental implant production using selective laser powder bed fusion melting: In-vitro results**
Onder M. E., Culhaoglu A., Ozgul O., Tekin U., Atıl F., Taze C., YASA E.
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II. **Thin-Walled Commercially Pure Titanium Structures: Laser Powder Bed Fusion Process Parameter Optimization**
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Machines, vol.11, no.2, 2023 (SCI-Expanded)

III. **Material-specific phenomena and developing higher yield process parameters in laser powder bed fusion of 17-4 PH stainless steel**
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IV. **Optimization of Tooth Support Geometrical Parameters for Laser Powder Bed Fusion Produced Overhang Parts**
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V. **Contact-Free Support Structures for the Direct Metal Laser Melting Process**
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VI. **Titanium based bone implants production using laser powder bed fusion technology**
Depboylu F. N., YASA E., Poyraz Ö., Minguella-Canela J., KORKUSUZ F., De los Santos López M. A.
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VII. **Effect of thickness and build direction on the mechanical behavior and microstructure of AISI 316L stainless steel produced by Laser Beam Powder Bed Fusion**
YASA E., Karasoglu M.
Kovove Materialy, vol.60, no.1, pp.55-65, 2022 (SCI-Expanded)

VIII. **Tribological and mechanical behavior of AISI 316L lattice-supported structures produced by laser powder bed fusion**
YASA E., AY G. M., Türkseven A.
International Journal of Advanced Manufacturing Technology, vol.118, no.5-6, pp.1733-1748, 2022 (SCI-Expanded)

IX. **Microstructure and mechanical properties of hybrid additive manufactured dissimilar 17-4 PH and 316L stainless steels**
Ozsoy A., Tureyen E. B., Baskan M., YASA E.
Materials Today Communications, vol.28, 2021 (SCI-Expanded)

X. **Pulsed-mode Selective Laser Melting of 17-4 PH stainless steel: Effect of laser parameters on density and mechanical properties**
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XI. **Investigation of residual stresses by micro indentation in selective laser melting Lazerle metal toz ergitme prosesinde kalinti gerilmelerin mikro girinti tekniği ile incelenmesi**
YASA E., Poyraz Ö.
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XII. **Dimensional Accuracy and Mechanical Properties of Chopped Carbon Reinforced Polymers Produced by Material Extrusion Additive Manufacturing**
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XIII. **Thermal and molten pool model in selective laser melting process of Inconel 625**
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XIV. **Assessing and comparing influencing factors of residual stresses in selective laser melting using a novel analysis method**
Kruth J., Deckers J., Yasa E., Wauthle R.
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XV. **Determination of geometrical factors in Layerwise Laser Melting using optical process monitoring**
Craeghs T., Clijsters S., Yasa E., Bechmann F., Berumen S., Kruth J.
OPTICS AND LASERS IN ENGINEERING, vol.49, no.12, pp.1440-1446, 2011 (SCI-Expanded)

XVI. **The investigation of the influence of laser re-melting on density, surface quality and microstructure of selective laser melting parts**
Yasa E., Deckers J., Kruth J.
RAPID PROTOTYPING JOURNAL, vol.17, no.5, pp.312-327, 2011 (SCI-Expanded)

XVII. **Manufacturing by combining Selective Laser Melting and Selective Laser Erosion/laser re-melting**
Yasa E., Kruth J. -., Deckers J.
CIRP ANNALS-MANUFACTURING TECHNOLOGY, vol.60, no.1, pp.263-266, 2011 (SCI-Expanded)

XVIII. **Investigation of laser and process parameters for Selective Laser Erosion**
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Precision Engineering-Journal Of The International Societies For Precision Engineering And Nanotechnology, vol.34, no.1, pp.101-112, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **Recent Inventions in Additive Manufacturing: Holistic Review**
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II. **Mechanical properties of laser powder bed fusion produced overhang parts with different support geometries: an experimental study**
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III. **Modeling of residual stress and distortion in direct metal laser sintering process: a fast prediction approach**
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Production Engineering, vol.16, no.6, pp.769-783, 2022 (ESCI)

IV. **Additive Manufacturing in Land Vehicle Industry**
Ersoy K., KOÇ B., YASA E.
American Journal of Biomedical Science and Research, 2019 (Peer-Reviewed Journal)

V. **Anisotropic impact toughness of chopped carbon fiber reinforced nylon fabricated by material extrusion-based additive manufacturing**
YASA E.
Eskişehir Technical University Journal of Science and Technology A- Applied Sciences And Engineering, vol.20, no.2, pp.195-203, 2019 (Peer-Reviewed Journal)

VI. **A Study on the Stair Stepping Effect in Direct Metal Laser Sintering of a Nickel-based Superalloy**

YASA E., Poyraz Ö., Uğur Solakoğlu E., Akbulut G., Ören S.
Procedia CIRP, vol.45, pp.175-178, 2016 (Peer-Reviewed Journal)

VII. **BENCHMARKING OF OPTICAL 3D MEASUREMENT SYSTEMS FORAEROSPACE APPLICATIONS**
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Mühendis ve Makina, 2014 (Peer-Reviewed Journal)

VIII. **Benchmarking for Metal Additive Manufacturing**
YASA E., POYRAZ Ö., YAĞMUR A., YILMAZ R., PİLATİN S.
MSI Defence Review, 2014 (Peer-Reviewed Journal)

IX. **Overview of cryogenic cooling in machining of Ti alloys and a case study**
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X. **Microstructural investigation of Selective Laser Melting 316L stainless steel parts exposed to laser re-melting**
YASA E., Kruth J. P.
Procedia Engineering (CIRP Conference on Surface Integrity (CSI), vol.19, pp.389-395, 2011 (Peer-Reviewed Journal)

XI. **Microstructure and mechanical properties of selective laser melted 18Ni-300 steel**
KEMPEN K., YASA E., THIJS L., KRUTH J. P., VAN HUMBEECK J.
Physics Procedia, vol.12, no.1, pp.255-263, 2011 (Peer-Reviewed Journal)

XII. **Charpy impact testing of metallic Selective Laser Melting parts**
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Virtual and Physical Prototyping, vol.5, no.2, pp.89-98, 2010 (Scopus)

Books & Book Chapters

I. **Smart Bioceramics for Orthopedic Applications**
YASA E., Depboylu F. N., KORKUSUZ P., KORKUSUZ F.
in: Innovative Bioceramics in Translational Medicine II, Choi A.H., Ben-Nissan B., Editor, Springer, pp.157-186, 2022

II. **İskelet sisteminde kullanılan biyomalzemeler ve vücudun biyomalzemelere yanıtı**
Depboylu F. N., KORKUSUZ P., YASA E., KORKUSUZ F.
in: Üst Ekstremite, Yaralanmalarında Rehabilitasyon, Tunay V, Erden Z, Yıldız C., Editor, Hipokrat Yayınevi, Ankara, pp.38-49, 2021

III. **Chapter 3 - Selective laser melting: principles and surface quality**
YASA E.
in: Handbooks in Advanced Manufacturing, Additive Manufacturing, Juan Pou, Antonio Riveiro, J. Paulo Davim, Editor, Elsevier, pp.77-120, 2021

IV. **Tasarım ve İmalat**
Yasa E. (Editor)
Intech Open, London, 2020

V. **Powder Bed Fusion Additive Manufacturing of Ni-Based Superalloys: Applications, Characteristics, and Limitations**
YASA E., POYRAZ Ö.
in: Additive Manufacturing Applications for Metals and Composites, K.R. Balasubramanian, V. Senthilkumar, Editor, IGI Global, Pennsylvania, pp.249-270, 2020

VI. **Additive Manufacturing of Polymer Matrix Composites**
Yasa E.
in: Uçak Teknolojisi (Aircraft Technology), Melih Kushan, Editor, Intech Open, London, pp.147-169, 2018

VII. **The investigation of the influence of laser re-melting on density, surface quality and microstructure of SLM parts**
YASA E., Deckers J., Kruth J. P.

in: Emerald Gems: A Focus on SLM and SLS Methods in 3D Printing, , Editor, EMERALD GROUP, pp.23-50, 2015

VIII. **Selective Laser Sintering/Melting and Selective Laser Erosion with Nd:YAG Lasers**
YASA E., CRAEGHS T., KRUTH J. P.
in: Advances in Laser and Optics Research Vol.7, Arkin W., Editor, NOVA PUBLISHERS, Hauppauge NY, pp.1-64, 2012

Refereed Congress / Symposium Publications in Proceedings

I. **Maksillofasiyal ve El Cerrahisi için Cp-Ti İmplantların Üretiminde Lazer Metal Toz Ergitme (LAM) Teknoloji Platformunun Geliştirilmesi**
DEPBOYLU F. N., YASA E., KORKUSUZ F., POYRAZ Ö.
BİOMED 2021-TR, 18 December 2021

II. **Parametric Simulations for Residual Stresses and Distortions of Inconel 625 Fabricated by Laser Powder Bed Fusion Additive Manufacturing**
POYRAZ Ö., YASA E., TUNÇ L. T., KILIÇAY K.
AMC TURKEY 2021, İstanbul, Turkey, 9 - 10 September 2021

III. **On the Z-Dimensional Accuracy of L-Powder Bed Fusion**
YASA E., Kandemir İ., ATİK İ.
AMC TURKEY 2021, İstanbul, Turkey, 09 September 2021

IV. **The Selective Laser Melting Process Development of 17-4 PH Stainless Steels with Pulsed-wave Lasers**
YASA E., ÖZSOY A., TÜREYEN E. B.
32. Annual Int. Virtual Solid Freeform Fabrication Synposium, United States Of America, 2 - 04 August 2021

V. **A Comparative and Experimental Study on the Effect of Heat Treatment Cycles for PBF Ti6Al4V**
KARAŞOĞLU M., YASA E., TAN E., YAĞMUR A.
32. Annual Int. Virtual Solid Freeform Fabrication Synposium, United States Of America, 2 - 04 August 2021

VI. **An Investigation on the Effect of Reuse and Recycling on Powder Characteristics in Electron Beam Melting**
YASA E., KARAŞOĞLU M., TAN E., GÜMÜŞ B., SÖYLEMEZ E., AKTAŞ K.
IMMC 2021, Turkey, 10 June 2021

VII. **Biyomimetik Poröz Dental İmplant Tasarımı, İn-vivo ve İn-vitro Değerlendirilmesi: İn-vitro Ön Sonuçlar**
ODABAŞI F., ÖNDER M. E., TEKİN U., ATIL F., ÇULHAOĞLU A. K., YASA E.
AÇBİD 14th International Online Congress, 07 May 2021

VIII. **On the Use of Inherent Strain Method for Modelling Electron Beam Melting**
TAN E., YASA E., GÜMÜŞ B., SÖYLEMEZ E., AKTAŞ K.
EBAM 2020, 5 - 07 October 2020

IX. **Katmanlı İmalat Teknolojilerinin Truva Atı**
YASA E.
Kaynak Teknolojisi XI. Ulusal Kongre ve Sergisi, Ankara, Turkey, 15 - 16 November 2019

X. **Selective Laser Melting Process Development for enhanced productivity with Ph 17-4 stainless steel**
YASA E., Atik İ., Bayraktar İ.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019

XI. **On the optimization of metal spatter sweeping in Selective Laser Melting**
Gürkan A. Y., Bursa M., YASA E., Öğüt E.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019

XII. **On the effect of unfixed process variables on mechanica properties in Selective Laser Melting**
YASA E., Ersoy K., KOÇ B.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019

XIII. **Characterization and Compression Testing of Double Gyroid Lattice Structures produced by Direct**

Metal Laser Sintering
Kavas B., YASA E., SÖNMEZ M. Ş.
AMCTURKEY Additive Manufacturing Conference, İstanbul, Turkey, 17 - 18 October 2019

XIV. **Compressive Strength Testing and Characterization of Double Gyroid Lattice Structure Produced by Direct Metal Laser Melting**
KAVAS B., YASA E., SÖNMEZ M. Ş.
4th WORKSHOP ON METAL ADDITIVE MANUFACTURING, 27 - 28 May 2019

XV. **Understanding Adopting Selective Laser Melting of Metallic Materials**
YASA E.
29th Annual International Solid Freeform Fabrication Symposium - An Additive Manufacturing Conference, 13 - 15 August 2018

XVI. **A Review on the Additive Manufacturing of Fiber Reinforced Polymer Matrix Composites**
YASA E., Ersoy K.
29th Annual International Solid Freeform Fabrication Symposium - An Additive Manufacturing Conference, 13 - 15 August 2018

XVII. **Investigation of Support Structures for Direct MetalLaser Sintering (DMLS) of IN625 Parts,**
Poyraz Ö., YASA E., Akbulut G., Orhangül A., Pilatin S.
Proc. of Solid Freeform Fabrication (SFF) Symposium, Austin, United States Of America, 10 - 12 August 2015

XVIII. **A Technological And Business Perspective Of Additive Manufacturing For Defense Industry**
Ersoy K., KOÇ B., YASA E.
18th INTERNATIONAL CONFERENCE ON MACHINE DESIGN ANDPRODUCTION, 3 - 06 July 2018

XIX. **A CASE STUDY IN ADDITIVE MANUFACTURING OF LARGE METALLIC PARTS**
YASA E., KOÇ B., ERSOY K.
Research and Development in Business and Education,in Prague November 14-16, 2017, Prague, Czech Republic, 14 - 16 November 2017

XX. **The enhancement of micromachining ability of Selective Laser Melting by Selective Laser Erosion,**
Kruth J. P., YASA E., Vanparys M., Van Vaerenbergh J.
International Conference Polymers and Moulds Innovations, GENT, Belgium, 19 April 2007 - 20 April 2017

XXI. **Process limits of direct metal lasersintering (DMLS) in terms of minimum hole and boss diameters with varying aspect ratios**
Solakoğlu Uğur E., Yılmaz R., Ören S., Akbulut G., Poyraz Ö., YASA E.
UMTIK (17thInternational Conference on Machine Design and Production) Conference, Bursa, Turkey, 12 - 15 July 2016

XXII. **Katmanlı İmalat Ve Talaşlı İmalatın Birlikte Uygulandığı Melez Üretim Sistemleri Üzerine**
POYRAZ Ö., YASA E., PİLATİN S.
UTIS 6. Ulusal Talaşlı İmalat Sempozyumu, İstanbul, Turkey, 5 - 07 November 2015

XXIII. **Repair and Manufacturing of High Performance Tools byAdditive Manufacturing**
YASA E., Poyraz Ö., Cızıoğlu N., Pilatin S.
8th International Conf. and Exhibition On Design and Production of Machines andDies/Molds, Aydın, Turkey, 18 - 21 June 2015

XXIV. **On Additive Manufacturing for Aviation/Space Applications**
YASA E.
SASAD İleri Malzemeler ve Süreçler Çalıştayı, Turkey, 2 - 03 December 2014

XXV. **Benchmarking of different powder-bed metal fusionprocesses for machine selection in additive manufacturing**
YASA E., Demir F., Akbulut G., Cızıoğlu N., Pilatin S.
Proc. of Solid Freeform Fabrication (SFF)Symposium, Austin, United States Of America, 4 - 06 August 2014

XXVI. **Investigation of free-form surface reconstruction techniques for reverse engineering of worn-out gas turbine blades: a case study**
Poyraz Ö., Uğur Solakoğlu E., Demir F., YASA E., Pilatin S.
The 16thInternational Conference on Machine Design and Production, İzmir, Turkey, 30 June - 03 July 2014

XXVII. **On Additive Manufacturing**
YASA E.
7th International Powder Metallurgy Conference and Exhibition, Ankara, Turkey, 24 - 28 June 2014

XXVIII. **Havacılık malzemelerinin atalet kaynağı yöntemi ilebirleştirilmesi**
Cızıoğlu N., YASA E., Akbulut G., Pilatin S.
IV. Ulusal Talaşlı İmalat Sempozyumu, Turkey, 7 - 09 November 2013

XXIX. **Havacılık sektöründe optik ölçümyöntemlerinin yeri ve karşılaştırmalı değerlendirilmesi üzerine bir çalışma**
YASA E., Ören S., Ezgi U., Poyraz Ö., Akbulut G.
VIII Ulusal Ölçümbilim Kongresi ve Sergisi, Kocaeli, Turkey, 26 - 28 September 2013

XXX. **Parameter study for Selective Laser Erosion**
Kruth J. P., YASA E., Van Vaerenbergh J.
4th InternationalConference and Exhibition on design and production of machines and dies/molds, İzmir, Turkey, 21 June 2007 - 23 June 2013

XXXI. **Assessment of machinability performance in 5-axis milling of Inconel 718 alloy with different carbide grades**
YASA E., Orhangül A., Songüler C., Pilatin S., Baytok E.
7thInternational Conference and Exhibition on Design and Production of Machines and Dies/Molds, Antalya, Turkey, 20 - 23 June 2013

XXXII. **A Review on the Improvements in Machinability of Ti-6Al-4V**
YASA E., Alpağan U., Pilatin S., ÇOLAK O.
10th Global Conference on Sustainable Manufacturing, İstanbul, Turkey, 31 October - 02 November 2012

XXXIII. **Overview of cryogenic cooling in machining of Ti alloys and a case study**
YASA E., Pilatin S., ÇOLAK O.
3rdInt. Conf. on Sustainable Life in Manufacturing, 2 - 05 October 2012

XXXIV. **Improving productivity rate in SLM of commercial steel powders**
Badrossamay M., YASA E., Van Vaerenbergh J.
RAPID 2009 Conference Exposition, Schaumburg, United States Of America, 12 - 14 May 2009

XXXV. **Roughness improvement in Selective Laser Melting**
Kruth J. P., YASA E., Deckers J.
Proc. of PMI 2008, 1 - 02 September 2008

XXXVI. **Consolidation of polymer powders by selective lasersintering**
Kruth J. P., Levy G., Schindel R., Craeghs T., YASA E.
Proc. of PMI 2008, Gent, Belgium, 1 - 02 September 2008

XXXVII. **Experimental investigation of laser surface re-melting for the improvement of Selective Laser Melting process**
Kruth J. P., YASA E., Deckers J.
Proc. of Solid Freeform Fabrication (SFF) Symposium, Austin, United States Of America, 4 - 06 August 2008

XXXVIII. **Experimental analysis of process and laser parameters in laser marking**
Kruth J. P., YASA E.
Proc. of ASME ESDA 2008, Haifa, Israel, 7 - 09 July 2008

XXXIX. **Experimental study of the combined process of Selective Laser Melting and Selective Laser Erosion**
YASA E., Kruth J. P.
Proc. of RAPID2008, Florida, United States Of America, 20 - 22 May 2008

Supported Projects

Yasa E., Poyraz Ö., TÜBİTAK International Bilateral Joint Cooperation Program Project, Maksillofasiyal, El ve KBB Cerrahisi için Kalsiyum Fosfat/Polimer Kompozit Kaplamalı Gözenekli Titanyum Mini Plakların Üretimi ve Karakterizasyonu için Lazerle Metal Toz Ergitme Teknolojik Platformunun Gelistirilmesi, 2021 - 2023

Yasa E., Tunç L. T., Poyraz Ö., Kılıçay K., TUBITAK Project, Hibrit Üretimde Eklemeli Ve Talaşlı İmalat Süreçleri Arasındaki Etkileşimin Analizi Ve İyileştirilmesi Için Yöntem Geliştirilmesi (Hyman), 2021 - 2023
Yasa E., Söylemez E., TUBITAK Project, Elektron Işını ile Ergitme Prosesi için Verimli ve Maliyet Etkin Süreç Döngüsünün Geliştirilmesi(Sözleşme aşamasında), 2020 - 2023
YASA E., AY G. M., Project Supported by Higher Education Institutions, Lazerle Metal Toz Ergitme Prosesinde Dolaylı Proses Değişkenlerinin Parça Kalitesine Olan Etkisinin İncelenmesi, 2020 - 2022
Yasa E., Ay G. M., TUBITAK Project, Lazerle Metal Toz Ergitme Prosesi İle Üretilmiş Kafes Yapılarının Aşınma /Sürtünme Davranışlarının Karakterizasyonu, 2020 - 2021

Metrics

Publication: 77
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Citation (Scopus): 800
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H-Index (Scopus): 6

Non Academic Experience

European Commission ICT
TUSAŞ Motor Sanayii A.Ş.