

## Assoc. Prof. HÜSEYİN KÜRŞAD SEZER

### Personal Information

**Email:** kursadsezer@gazi.edu.tr

**Web:** <https://avesis.gazi.edu.tr/kursadsezer>

### Education Information

Doctorate, The University of Manchester, Mechanical Engineering, United Kingdom 2003 - 2007

Undergraduate, Erciyes University, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Turkey 1996 - 2001

### Academic Titles / Tasks

Research Assistant, The University of Manchester, Engineering And Physical Sciences, Mechanical Engineering, 2007 - 2013

### Academic and Administrative Experience

Gazi University, Teknoloji Fakültesi, Endüstriyel Tasarım Mühendisliği Bölümü, 2014 - Continues

### Courses

İLERİ İMALAT TEKNOLOJİLERİ, Undergraduate, 2017 - 2018

TERSİNE MÜHENDİSLİK TASARIMI, Undergraduate, 2016 - 2017, 2017 - 2018

TEKNİK İNGİLİZCE-I, Undergraduate, 2016 - 2017, 2017 - 2018

BİLGİSAYAR DESTEKLİ MÜHENDİSLİK, Undergraduate, 2016 - 2017, 2017 - 2018

MÜHENDİSLİK MEKANİĞİ-I, Undergraduate, 2017 - 2018

İŞYERİ EĞİTİMİ, Undergraduate, 2017 - 2018

HIZLI PROTOTİPLEME VE TERSİNE MÜHENDİSLİK, Postgraduate, 2016 - 2017, 2017 - 2018

MESLEKİ YABANCI DİL-I, Undergraduate, 2016 - 2017

TEKNİK İNGİLİZCE-II, Undergraduate, 2016 - 2017

### Advising Theses

SEZER H. K. , Design Of Tissue Scaffold With Tunable Stiffness Using 3d Additive Manufacturing Technologies, Postgraduate, B.ÇOTUR(Student), 2019

SEZER H. K. , The Design And Manufacturing Of Laser Assisted Lathe For Stent Manufacturing, Postgraduate, O.Tuna(Student), 2019

SEZER H. K. , Development Of Layered Manufacturing Technology Selection Assistant With Multi-Size Decision Making Techniques For Automotive Industry, Postgraduate, İ.HASİPEK(Student), 2019

SEZER H. K. , Composite Part Design With Fdm 3d Printer And Investigation Of Mechanical Properties, Postgraduate, O.EREN(Student), 2017

## ARTICLES PUBLISHED IN JOURNALS THAT ENTERED SCI, SSCI AND AHCI INDEXES

- I. **Effect of lattice design on mechanical response of PolyJet additively manufactured cellular structures**  
EREN O., SEZER H. K. , YALÇIN N.  
JOURNAL OF MANUFACTURING PROCESSES, vol.75, pp.1175-1188, 2022 (Journal Indexed in SCI)
- II. **FDM 3D printing of MWCNT re-inforced ABS nano-composite parts with enhanced mechanical and electrical properties**  
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JOURNAL OF MANUFACTURING PROCESSES, vol.37, pp.339-347, 2019 (Journal Indexed in SCI)
- III. **Additive manufacturing of carbon fiber reinforced plastic composites by fused deposition modelling: effect of fiber content and process parameters on mechanical properties**  
SEZER H. K. , EREN O., BÖRKLÜ H. R. , ÖZDEMİR V.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.34, no.2, pp.664-674, 2019 (Journal Indexed in SCI)
- IV. **The design process of the complex Special Utility Vehicle using the methodical design approach**  
Cavdar F. Y. , BÖRKLÜ H. R. , ÇAVDAR K., SEZER H. K.  
JOURNAL OF ADVANCED MECHANICAL DESIGN SYSTEMS AND MANUFACTURING, vol.13, no.4, 2019 (Journal Indexed in SCI)
- V. **Performance of coated and uncoated carbide/cermet cutting tools during turning**  
ULAŞ H. B. , BİLGİN M., SEZER H. K. , ÖZKAN M. T.  
MATERIALS TESTING, vol.60, no.9, pp.893-901, 2018 (Journal Indexed in SCI)
- VI. **Continuous Wave Fibre Laser Drilling of High Aspect Ratio Holes in Ni-based Alloys**  
SEZER H. K.  
LASERS IN ENGINEERING, vol.39, pp.281-291, 2018 (Journal Indexed in SCI)
- VII. **A practical application for machine design education**  
BÖRKLÜ H. R. , Yuksel N., ÇAVDAR K., SEZER H. K.  
JOURNAL OF ADVANCED MECHANICAL DESIGN SYSTEMS AND MANUFACTURING, vol.12, no.2, 2018 (Journal Indexed in SCI)
- VIII. **Numerical investigation on laser stripping of thermal barrier coating**  
Marimuthu S., Kamara A. M. , SEZER H. K. , Li L., Ng G. K. L.  
COMPUTATIONAL MATERIALS SCIENCE, vol.88, pp.131-138, 2014 (Journal Indexed in SCI)
- IX. **Understanding the process parameter interactions in multiple-pass ultra-narrow-gap laser welding of thick-section stainless steels**  
Elmesalamy A. S. , Li L., Francis J. A. , SEZER H. K.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.68, pp.1-17, 2013 (Journal Indexed in SCI)
- X. **Nano-second pulsed DPSS Nd:YAG laser striation-free cutting of alumina sheets**  
Yan Y., Li L., SEZER H. K. , Whitehead D., Ji L., Bao Y., Jiang Y.  
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- XI. **CO<sub>2</sub> laser underwater machining of deep cavities in alumina**  
Yan Y., Li L., SEZER H. K. , Wang W., Whitehead D., Ji L., Bao Y., Jiang Y.  
JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.31, no.15, pp.2793-2807, 2011 (Journal Indexed in SCI)
- XII. **Experimental and theoretical investigation of fibre laser crack-free cutting of thick-section alumina**  
Yan Y., Li L., SEZER H. K. , Whitehead D., Ji L., Bao Y., Jiang Y.  
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- XIII. **The effect of moisture content in fibre laser cutting of pine wood**  
Hernandez-Castaneda J. C. , SEZER H. K. , Li L.  
OPTICS AND LASERS IN ENGINEERING, vol.49, pp.1139-1152, 2011 (Journal Indexed in SCI)
- XIV. **Single and dual gas jet effect in Ytterbium-doped fibre laser cutting of dry pine wood**  
Hernandez-Castaneda J. C. , SEZER H. K. , Li L.

INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.56, pp.539-552, 2011 (Journal Indexed in SCI)

- XV. **Fabrication of superhydrophobic Cu surfaces with tunable regular micro and random nano-scale structures by hybrid laser texture and chemical etching**  
Dong C., Gu Y., Zhong M., Li L., SEZER H. K. , Ma M., Liu W.  
JOURNAL OF MATERIALS PROCESSING TECHNOLOGY, vol.211, no.7, pp.1234-1240, 2011 (Journal Indexed in SCI)
- XVI. **Dual gas jet-assisted fibre laser blind cutting of dry pine wood by statistical modelling**  
Hernandez-Castaneda J. C. , SEZER H. K. , Li L.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.50, pp.195-206, 2010 (Journal Indexed in SCI)
- XVII. **Nano-second pulsed DPSS Nd:YAG laser cutting of CFRP composites with mixed reactive and inert gases**  
Negarestani R., Li L., SEZER H. K. , Whitehead D., Methven J.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.49, pp.553-566, 2010 (Journal Indexed in SCI)
- XVIII. **Recast and oxide formation in laser-drilled acute holes in CMSX-4 nickel single-crystal superalloy**  
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- XIX. **Twin gas jet-assisted laser drilling through thermal barrier-coated nickel alloy substrates**  
SEZER H. K. , Li L., Leigh S.  
INTERNATIONAL JOURNAL OF MACHINE TOOLS & MANUFACTURE, vol.49, no.14, pp.1126-1135, 2009 (Journal Indexed in SCI)
- XX. **Mechanisms of Acute Angle Laser Drilling Induced Thermal Barrier Coating Delamination**  
SEZER H. K. , Li L.  
JOURNAL OF MANUFACTURING SCIENCE AND ENGINEERING-TRANSACTIONS OF THE ASME, vol.131, no.5, 2009 (Journal Indexed in SCI)
- XXI. **Statistical analysis of recast formation in laser drilled acute blind holes in CMSX-4 nickel superalloy**  
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- XXII. **Statistical analysis of ytterbium-doped fibre laser cutting of dry pine wood**  
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- XXIII. **Non-destructive microwave evaluation of TBC delamination induced by acute angle laser drilling**  
SEZER H. K. , Li L., Wu Z., Anderson B., Williams P.  
MEASUREMENT SCIENCE AND TECHNOLOGY, vol.18, no.1, pp.167-175, 2007 (Journal Indexed in SCI)
- XXIV. **Effect of beam angle on HAZ, recast and oxide layer characteristics in laser drilling of TBC nickel superalloys**  
SEZER H. K. , Li L., Schmidt M., Pinkerton A. J. , Anderson B., Williams P.  
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- XXV. **An investigation into delamination mechanisms in inclined laser drilling of thermal barrier coated aerospace superalloys**  
SEZER H. K. , Pinkerton A., Li L., Byrd P.  
JOURNAL OF LASER APPLICATIONS, vol.17, no.4, pp.225-234, 2005 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **ADDITIVE MANUFACTURING OF MICROFLUIDIC LAB-ON-A-CHIP DEVICES**  
EREN O., ÇUHADAROĞLU M. B. , SEZER H. K.  
International Journal of 3D Printing Technologies and Digital Industry, vol.5, no.3, pp.692-708, 2021 (Other Refereed National Journals)
- II. **Tersine Mühendislik Tasarımı: Endüstriyel Tasarım Mühendisliği Lisans Öğrencileri İçin Teknik Seçmeli Ders**  
EREN O., SEZER H. K. , BÖRKLÜ H. R.  
International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.3, pp.1-11, 2018 (Refereed Journals of Other Institutions)
- III. **Implementing 3D Printed Structures as the Newest Textile Form**  
GÜRCÜM B. H. , BÖRKLÜ H. R. , SEZER H. K. , EREN O.  
Journal of Fashion Technology Textile Engineering, vol.0, no.4, pp.1-7, 2018 (Refereed Journals of Other Institutions)
- IV. **A Novel Conceptual Design of a Stairlift for Elderly and Disabled People**  
BÖRKLÜ H. R. , Bozbuğa F., SEZER H. K. , ÖZDEMİR V.  
Gazi University Journal of Science Part A: Engineering And Innovation, vol.5, no.1, pp.17-29, 2018 (Refereed Journals of Other Institutions)
- V. **Topolojik nesnelerin FDM yöntemiyle üretimi”, International Journal of 3D Printing Technologies and Digital Industry**  
Demir S., SEZER H. K. , ÖZDEMİR V.  
International Journal of 3D Printing Technologies and Digital Industry, vol.2, pp.76-87, 2018 (Refereed Journals of Other Institutions)
- VI. **KUYUMCULUK SEKTÖRÜNDE 3B BASKI TASARIM ÖZGÜRLÜĞÜNDEN FAYDALANMAYA İLİŞKİN BİR PERSPEKTİF**  
Kiraz C., SEZER H. K. , ŞAHİN İ.  
International Journal of 3D Printing Technologies and Digital Industry, vol.2, no.2, pp.46-58, 2018 (Refereed Journals of Other Institutions)
- VII. **Current 3 Dimensional Printing Technologies Used in Scaffold Design in Tissue Engineering**  
Çotur B., SEZER H. K.  
Düzce University Journal of Science Technology, vol.5, no.2, pp.548-564, 2017 (Other Refereed National Journals)
- VIII. **Short Review on Laser Texturing and Cleaning Carbon Fibre Composites for Aerospace Applications**  
SEZER H. K.  
JOURNAL OF POLYTECHNIC-POLİTEKNİK DERGISI, vol.19, no.4, pp.623-631, 2016 (Journal Indexed in ESCI)
- IX. **Hızlı Prototip Oluşturmada Karşılaşılan Problemler Ve Çözüm Önerileri**  
BÖRKLÜ H. R. , Yıldırım A. K. , SEZER H. K.  
Gazi Üniversitesi Fen Bilimleri Dergisi Part C: Tasarım ve Teknoloji, vol.4, no.4, pp.309-319, 2016 (Refereed Journals of Other Institutions)

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **Analytical Modelling of Heat Distribution in Powder Bed Fusion Process**  
EREN O., SEZER H. K.  
Innovative Approaches in Additive Manufacturing Congress (IA4AM), Ankara, Turkey, 16 July 2021, pp.17-24
- II. **Üretken Tasarım ve Topoloji Optimizasyonu Yaklaşımlarıyla Ürün Tasarımı**  
EREN O., SEZER H. K.  
Uluslararası Bilim, Teknoloji Ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22 December 2019, vol.2, pp.251-262
- III. **3 Boyutlu Yazıcıların Medikal Uygulamaları ve Ayak Bileği Ortez Üretimi**  
TURGAY T., EREN O., SEZER H. K.  
Uluslararası Bilim, Teknoloji Ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22

December 2019, vol.1, pp.376-391

**IV. FDM Yazıcı ile Küresel Vana Prototip Çalışması**

ARINCI B. B. , EREN O., SEZER H. K.

Uluslararası Bilim, Teknoloji Ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22

December 2019, vol.2, pp.263-272

**V. Lazer Eklentili Ergiyik Biriktirme (FDM) Yöntemiyle Kompozit Parça Üretimi**

EREN O., SEZER H. K.

Uluslararası Bilim, Teknoloji Ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22

December 2019, vol.1, pp.367-375

**VI. Tekstil Sektörüne Eklemeli İmalat Yaklaşımı: 3B Yazıcılar İle Deneysel Çalışma**

AVCI G., EREN O., SEZER H. K.

Uluslararası Bilim, Teknoloji Ve Sosyal Bilimlerde Güncel Gelişmeler Sempozyumu, Ankara, Turkey, 20 - 22

December 2019, vol.1, pp.411-419

**VII. Generative Herringbone Gear Design for Additive Manufacturing**

EREN O., SEZER H. K.

II International Turkish Word Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019, vol.3,

pp.758-766

**VIII. State of The Art in Laser Drilling of Aerospace Materials**

SEZER H. K. , EREN O.

II International Turkish Word Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019, vol.3,

pp.767-773

**IX. Additive Manufacturing of Sensors**

EREN O., SEZER H. K.

II International Turkish Word Engineering and Science Congress, Antalya, Turkey, 7 - 10 November 2019, vol.3,

pp.746-757

**X. TRIZ Yaklaşımı ile 3D Yazıcı Ekstruderı Tasarımı**

EREN O., BAŞAK H., SEZER H. K.

İSIDE-2018, Antalya, Turkey, 22 - 24 November 2018, pp.634-641

**XI. Kompozitlerin Eklemeli İmalatı: Uygulama Alanları**

EREN O., SEZER H. K.

3'xxrd International Symposium on Industrial Design Engineering (ISIDE 2018), 22 - 24 November 2018

**XII. Kompozitlerin Eklemeli İmalatı: Üretim Metodolojisi, Baskı Teknikleri ve Kullanılabilir Malzemeler**

EREN O., SEZER H. K.

3'xxrd International Symposium on Industrial Design Engineering (ISIDE 2018), 22 - 25 November 2018

**XIII. A Perspective On Exploiting The Design Freedom Of 3d Printers In Jewellery Industry**

Kiraz C., SEZER H. K. , ŞAHİN İ.

3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018

**XIV. 3d Printing Of Multifunctional Nanocomposites With Enhanced Electrical Properties**

EREN O., SEZER H. K.

3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018

**XV. State Of The Art In Applications Of 3d-Prototyping In Automotive Industry With Case Studies**

Hasipek İ., SEZER H. K.

3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018

**XVI. Topolojik Nesnelerin FDM Yöntemiyle Üretimi**

DEMİR S., SEZER H. K. , ÖZDEMİR V.

3'rd International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry, Antalya, Turkey, 19 April 2018 - 21 April 2019

**XVII. Reverse Engineering Design: Industrial Design Engineering Technical Elective Course For**

## **Undergraduate Students**

EREN O., SEZER H. K. , BÖRKLÜ H. R.

3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018

- XVIII. **Design And Manufacture Of Customised Toys Utilising Low Cost Fdm 3d Printers**  
Yüceliş A. C. , BÖRKLÜ H. R. , SEZER H. K.  
3rd International Congress on 3D Printing Technologies and Digital Industry 2018, Antalya, Turkey, 19 - 21 April 2018
- XIX. **High Speed Manufacture Of A Geotextile Through Nanosecond Pulsed Laser Transmisson Welding Process**  
SEZER H. K. , Marimuthu S.  
1st International Turkish World Engineering and Science Congress, 7 - 10 December 2017
- XX. **Bio-Fabrication Via Laser-Induced Forward Transfer**  
SEZER H. K. , Çotur B.  
1st International Turkish World Engineering and Science Congress, 7 - 10 December 2017
- XXI. **Implementing 3D printed structures as the newest textile form**  
GÜRCÜM B. H. , BÖRKLÜ H. R. , SEZER H. K. , EREN O.  
International Conference on Intelligent Textiles and Mass Customisation ITMC2017, Ghent, Belgium, 15 - 18 October 2017
- XXII. **Conceptual Design of A New Stair Lift For Eldery and Disabled People**  
BÖRKLÜ H. R. , BOZBUĞA F., SEZER H. K.  
2nd Inter. Sym. on Industrial Design Engineering, Nevşehir, Turkey, 13 - 15 September 2017
- XXIII. **3D Printing of Graphene Composites**  
SEZER H. K. , EREN O., BÖRKLÜ H. R.  
2nd International Symposium on Industrial Design Engineering (ISIDE 17), 13 - 15 September 2017
- XXIV. **The Design of a Low-Cost Set-Up for Manufacturing The Stent**  
Gökgöz O. T. , SEZER H. K.  
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- XXV. **Conceptual Design of a Novel Stair Lift for Elderly and Disabled People**  
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- XXVI. **Enhanced Mechanical and Electrical Properties of 3D Printed MWCNT Re-inforced ABS Nano-Composite Parts**  
SEZER H. K. , EREN O.  
39th International MATADOR Conference on Advanced Manufacturing, Manchester, United Kingdom, 5 - 07 July 2017
- XXVII. **Additive Manufacturing Of Carbon Fiber Reinforced Plastic Composites By Fused Deposition Modelling: Effect Of Process Parameters On Tensile Properties**  
SEZER H. K. , EREN O., BÖRKLÜ H. R.  
2nd International Symposium on 3D Printing Technologies (3D-PTS2017), 3 - 04 April 2017
- XXVIII. **Current 3D Dimensional Printing Technologies Used İn Scaffold Design İn Tissue Engineering**  
Çotur B., SEZER H. K.  
2nd International Symposium on 3D Printing Technologies (3D-PTS2017), 3 - 04 April 2017
- XXIX. **Ergiyik Biriktirme Yöntemi İle Karbon Fiber Takviyeli Kompozitlerin Eklemeli İmalatı: İşlem Parametrelerinin Çekme Özelliklerine Etkisi**  
SEZER H. K. , EREN O., BÖRKLÜ H. R.  
2nd Inter. Sym. on 3D Printing, İstanbul, Turkey, 3 - 04 April 2017
- XXX. **Karbon Fiber Takviyeli ABS Filament Üretimi ve Mekanik Özelliklerinin Araştırılması**  
SEZER H. K. , EREN O., BÖRKLÜ H. R.  
International Symposium On 3D Printing Technologies, İstanbul, Turkey, 5 - 08 May 2016, pp.138-148
- XXXI. **Hızlı Prototip Oluşturmada Karşılaşılan Problemler Ve Çözüm Önerileri**

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- XXXII. **Karbon Fiber Takviyeli Abs Filament Üretimi Ve Mekanik Özelliklerinin Araştırılması**  
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- XXXIII. **HIZLI PROTOTİP OLUŞTURMADA KARŞILAŞILAN PROBLEMLER VE ÇÖZÜM ÖNERİLERİ**  
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- XXXIV. **KARBON FİBER TAKVİYELİ ABS FİLAMENT ÜRETİMİ VE MEKANİK ÖZELLİKLERİNİN ARAŞTIRILMASI**  
SEZER H. K. , EREN O., BÖRKLÜ H. R.  
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- XXXV. **Process characteristics of single mode fibre laser net shape welding**  
Eghlio R. M. , Pinkerton A., SEZER H. K. , Li L.  
PICALO 2010, 4th Pacific International Conference on Applications of Lasers and Optics (PICALO 2010), 23 - 25 March 2010
- XXXVI. **Oxide formation in acute laser percussion drilled holes in single crystal nickel superalloy**  
Leigh S., SEZER H. K. , Li L., GraftonReed C., Cuttall M.  
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- XXXVII. **The effect of moisture content and tracheids orientation in fibre laser cutting of dry and wet pine wood**  
HernandezCastaneda J., SEZER H. K. , Li L.  
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- XXXVIII. **The Effect of Powder Recycling in Direct Metal Laser Deposition on Powder and Manufactured Part Characteristics**  
Carroll P., Pinkerton A., Allen J., Syed W., SEZER H. K. , Brown P., Ng G., Scudamore R., Li L.  
NATO Specialists Meeting AVT-139 'xxCost Effective Manufacture via Net Shape Processing'xx, 01 January 2006, pp.181-188
- XXXIX. **Effect of beam angle on heat affected zone recast and oxide layer in laser drilling of thermal barrier coated nickel alloys**  
SEZER H. K. , Li L., Anderson B., Williams P., Schmidt M.  
ICALEO 2005, 24th International Congress on Applications of Lasers and Electro-Optics, - Congress Proceedings, Miami, United States Of America, 31 October - 03 November 2005
- XL. **The effect of gas jet and melt flow on laser drilling of thermal barrier coated nickel alloys**  
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## Citations

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