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Education Information

Doctorate, Montanuniversitaet, Ins. Für Metallkunde Und Werkstoffprüfung, Austria 1994 - 1998

Postgraduate, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1990 - 1992

Undergraduate, Yıldız Üniversitesi, Mühendislik Fakültesi, Metalurji Mühendisliği Bölümü, Turkey 1986 - 1990

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Thermal Treatment, Material Characterization, Structure-Property Relationship, Engineering and Technology

Academic Titles / Tasks

Professor, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği, 2010 - Continues

Academic and Administrative Experience

Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, 2005 - 2010

Advising Theses

Karaaslan A., Paslanmaz Çeliklerin Kaynak Kabiliyetleri ve Oluşabilecek Kaynak Hataları, Postgraduate, O.ÖZSAVANER(Student), 2019

Karaaslan A., Bimetal Kompozitlerin Metal Talaşlarıyla Üretimi ve Karakterizasyonu, Doctorate, R.GECÜ(Student), 2019

KARAASLAN A., Fotovoltaik Uygulamalar İçin Sıçratma Yöntemi İle Üretilen ZnO İnce Filmlerde Katkı Elementlerinin Etkisi, Postgraduate, Ü.Mustafaoğlu(Student), 2017

KARAASLAN A., Galyum Katkılı Çinko-Oksit İnce Filmlerin Özelliklerine Sıçratma Gücünün ve Kaplama Sonrası Uygulanan Isıl İşlemin Etkileri, Postgraduate, B.Handem(Student), 2017

KARAASLAN A., Alüminyum Ekstrüzyonunda Kullanılan Sıcak İş Takım Çeliğinin Bor-Nitrür İle Kaplanması, Postgraduate, Y.Akça(Student), 2017

KARAASLAN A., AA7075 Alaşımında Yaşlandırma ve RRA İşlemleri İle Özellik Değişimlerinin İncelenmesi, Doctorate, G.Özer(Student), 2017

KARAASLAN A., Değişik Oranlarda SiC İçeren Alüminyum Matrisli Kompozitlerin Birleştirilmesi, Postgraduate, Ç.Engin(Student), 2016

KARAASLAN A., Otomotiv Sektöründeki Birleştirmelerde Seçilen Kaynak Parametreleri Ve Kullanılan Teknolojiler: Geleneksel Yöntemler Ve Laser Tekniği, Postgraduate, C.Yeşildal(Student), 2016

KARAASLAN A., Dupleks Paslanmaz Çelikteki Sigma Ve Chi Fazlarının Ergitme Kaynağındaki Oluşum Mekanizmalarının

Modelleme İle Saptanması, Postgraduate, S.Gürel(Student), 2016
KARAASLAN A., Takım Malzemelerinde Aşınma Hasarlarını Önleyecek İşlemler ve Yağlayıcıların Belirlenmesi, Postgraduate, O.Aydoğan(Student), 2016
KARAASLAN A., Dupleks Paslanmaz Çeliklerin Kaynağında Isıl Girdilerin Modellenmesi ve Deneysel Verilerin Eldesi, Doctorate, A.Kısaöz(Student), 2016
KARAASLAN A., Sıcak İş Takım Çeliklerinin Elastikliğine Isıl İşlemlerin Etkisi, Postgraduate, A.Kısaöz(Student), 2016
KARAASLAN A., Kısa Fiber Takviyeli Polimer Matrisli Kompozitlerin Enjeksiyon Yöntemi İle Üretimi, Postgraduate, Ş.Sabancı(Student), 2016
KARAASLAN A., Dupleks Paslanmaz Çelikte Oluşan Sigma Ve Chi Fazlarının Oluşum Mekanizmalarının Farklı Isıl İşlem Parametreleriyle Saptanması, Postgraduate, S.Akpınar(Student), 2015
KARAASLAN A., Yüksek Hız Takım Çeliklerinde Uygulanan Isıl İşlemler Ve Elde Edilen Özellikler Arasındaki İlişkilerin Fiziksel Metalurjik Yönden İncelenmesi, Postgraduate, G.Orkun(Student), 2012
KARAASLAN A., Al 7075 Alaşımının Şekillenme ve Isıl İşleme Özelliklerinin İyileştirilmesi, Postgraduate, I.Kaya(Student), 2005
KARAASLAN A., Silisyum Karbür Takviyeli Alüminyum Matrisli Kompozitlerin Toz Metalurjisi Yöntemi Ve Döküm Yöntemiyle Üretilmesi, Postgraduate, G.Yanıkçı(Student), 2004
KARAASLAN A., Titanyum ve Alaşımlarının Tungsten İnert Gaz (TIG) Kaynağı, Postgraduate, A.Ekmekçioğlu(Student), 2003

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **INVESTIGATION OF THE EFFECTS OF DIFFERENT RETROGRESSION AND RE-AGING PARAMETERS APPLIED TO THE 7075 ALLOY ON THE MICRO-ARC OXIDATION PROCESS**
Yılmaz M. S. , Ozer G., ŞAHİN O., KARAASLAN A.
SURFACE REVIEW AND LETTERS, vol.28, no.09, 2021 (Journal Indexed in SCI)
- II. **Microstructure, wear and corrosion characteristics of multiple-reinforced (SiC-B4C-Al₂O₃) Al matrix composites produced by liquid metal infiltration**
ÖZTÜRK K., GECÜ R., KARAASLAN A.
CERAMICS INTERNATIONAL, vol.47, no.13, pp.18274-18285, 2021 (Journal Indexed in SCI)
- III. **A Study on the Effects of Different Heat Treatment Parameters on Microstructure-Mechanical Properties and Corrosion Behavior of Maraging Steel Produced by Direct Metal Laser Sintering (DMLS)**
Özer G., Karaaslan A.
Steel Research International, vol.91, no.10, pp.1-8, 2020 (Journal Indexed in SCI Expanded)
- IV. **Casting temperature dependent wear and corrosion behavior of 304 stainless steel reinforced A356 aluminium matrix bimetal composites fabricated by vacuum-assisted melt infiltration casting**
Gecü R., Karaaslan A.
WEAR, vol.446, 2020 (Journal Indexed in SCI)
- V. **Influence of the phase balance and cooling conditions on the microstructure and corrosion behavior of solution-treated 1.4462 duplex stainless steel**
Yalçın G., Özer G., Kısaöz A., Karaaslan A.
MATERIALS RESEARCH EXPRESS, vol.6, no.12, 2019 (Journal Indexed in SCI)
- VI. **Cooling slope casting of AA7075 alloy combined with reheating and thixoforging**
Güler K. A. , Kısaöz A., Ozer G., Karaaslan A.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.29, pp.2237-2244, 2019 (Journal Indexed in SCI)
- VII. **Effect of RRA heat treatment on corrosion and mechanical properties of AA7075**
Özer G., Karaaslan A.
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, vol.70, no.11, pp.2064-2072, 2019 (Journal Indexed in SCI)

- VIII. **Effect of secondary phases on 475 °C embrittlement of 1.4462 and 1.4501 duplex stainless steels at short-term heat treatment conditions**
KISASÖZ A., Ozer G., KARAASLAN A.
Materials Research Express, vol.6, no.11, 2019 (Journal Indexed in SCI)
- IX. **Effects of retrogression and reaging heat treatment on the microstructure, exfoliation corrosion, electrical conductivity, and mechanical properties of AA7050**
Özer G., Kaya I., Karaaslan A.
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, vol.70, no.10, pp.1788-1797, 2019 (Journal Indexed in SCI)
- X. **Investigation of the relationship between intergranular corrosion and retrogression and reaging in the AA6063**
Ozer G., KISASÖZ A., KARAASLAN A.
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, vol.70, no.12, pp.2256-2265, 2019 (Journal Indexed in SCI)
- XI. **Sliding Wear of the Ti-Reinforced Al Matrix Bi-metal Composite: A Potential Replacement to Conventional SiC-Reinforced Composites for Automotive Application**
GECÜ R., KARAASLAN A.
INTERNATIONAL JOURNAL OF METALCASTING, vol.13, no.3, pp.641-652, 2019 (Journal Indexed in SCI)
- XII. **Improving wear resistance of 304 stainless steel reinforced AA7075 aluminum matrix composite by micro-arc oxidation**
GECÜ R., Yurekturk Y., Tekoglu E., Muhaffel F., KARAASLAN A.
SURFACE & COATINGS TECHNOLOGY, vol.368, pp.15-24, 2019 (Journal Indexed in SCI)
- XIII. **The effect of retrogression and re-aging treatment on mechanical and tribological features of AA7075 aluminium alloy**
Einfluss der Retrogressions- und Reaging-Behandlung auf die mechanischen und tribologischen Eigenschaften der Aluminiumlegierung AA7075
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MATERIALWISSENSCHAFT UND WERKSTOFFTECHNIK, vol.50, no.6, pp.761-768, 2019 (Journal Indexed in SCI)
- XIV. **A Comparative Study on Titanium-Reinforced Aluminium Matrix Composites Produced by Melt Infiltration Casting and Squeeze Infiltration**
GECÜ R., KARAASLAN A.
INTERNATIONAL JOURNAL OF METALCASTING, vol.13, no.2, pp.311-319, 2019 (Journal Indexed in SCI)
- XV. **Microstructural and Tribological Characterization of Stainless Steel-Reinforced Aluminum Matrix Bimetal Composites Produced at Various Mold Burnout Temperatures**
GECÜ R., KARAASLAN A.
TRIBOLOGY TRANSACTIONS, vol.62, no.2, pp.249-261, 2019 (Journal Indexed in SCI)
- XVI. **Effects of RRA heat treatment on the exfoliation corrosion (EXCO), intergranular corrosion (IGC), and electrical conductivity of AA7075 alloy**
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- XVII. **Volume Fraction Dependent Wear Behavior of Titanium-Reinforced Aluminum Matrix Composites Manufactured by Melt Infiltration Casting**
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JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol.141, no.2, 2019 (Journal Indexed in SCI)
- XVIII. **Preform-Based Production of Al₂O₃-Reinforced Aluminium Matrix Composites by Using Various Modification Techniques**
Öztürk K., Gecü R., Karaaslan A.
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- XIX. **A Study on Al/Cu Bimetal Production by Lost Foam Casting**
ACAR S., GECÜ R., KISASÖZ A., GÜLER K. A., KARAASLAN A.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.55, no.11, pp.728-740, 2018 (Journal Indexed in SCI)

in SCI)

- XX. **Etching behavior of ZnO:Ga thin films**
Duygulu N., MUSTAFAOĞLU U., KODOLBAŞ A. O. , KARAASLAN A.
MATERIALS TESTING, vol.60, no.11, pp.1097-1103, 2018 (Journal Indexed in SCI)
- XXI. **Influence of T6 heat treatment on A356 and A380 aluminium alloys manufactured by thixoforging combined with low superheat casting**
GECÜ R., ACAR S., KISASÖZ A., ALTUG GULER K. A. , KARAASLAN A.
Transactions of Nonferrous Metals Society of China (English Edition), vol.28, no.3, pp.385-392, 2018 (Journal Indexed in SCI)
- XXII. **Relationship Between Nanoindentation and Wear Properties of Stainless Steel-Reinforced Aluminium Matrix Composite**
GECÜ R., KARAASLAN A.
TRIBOLOGY LETTERS, vol.65, no.4, 2017 (Journal Indexed in SCI)
- XXIII. **Properties of AA7075 aluminum alloy in aging and retrogression and reaging process**
ÖZER G., KARAASLAN A.
TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.27, no.11, pp.2357-2362, 2017 (Journal Indexed in SCI)
- XXIV. **Influence of preform preheating on dry sliding wear behavior of 304 stainless steel reinforced A356 aluminum matrix composite produced by melt infiltration casting**
GECÜ R., ATAPEK Ş. H. , KARAASLAN A.
TRIBOLOGY INTERNATIONAL, vol.115, pp.608-618, 2017 (Journal Indexed in SCI)
- XXV. **Relationship of RRA heat treatment with exfoliation corrosion, electrical conductivity and microstructure of AA7075 alloy**
Özer G., KARAASLAN A.
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- XXVI. **Investigation of spherisation in microstructures of aluminium casting alloys for thixoforging process**
GÜLER K. A. , GECÜ R., KISASÖZ A., KARAASLAN A.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.58, no.5, pp.489-494, 2017 (Journal Indexed in SCI)
- XXVII. **DOUBLE FILLET WELDING OF CARBON STEEL T-JOINT BY DOUBLE CHANNEL SHIELDING GAS METAL ARC WELDING METHOD USING METAL CORED WIRE**
MERT T., GÜLTEKİN N., KARAASLAN A.
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- XXVIII. **Influence of Orbital Shaking on Microstructure and Mechanical Properties of A380 Aluminium Alloy Produced by Lost Foam Casting**
KISASÖZ A., GÜLER K. A. , KARAASLAN A.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.58, no.3, pp.238-243, 2017 (Journal Indexed in SCI)
- XXIX. **The Effect of RRA Heat Treatment on the Intergranular Corrosion (IGC) of the AA7075 Alloy**
Özer G., KARAASLAN A.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.54, no.4, pp.256-266, 2017 (Journal Indexed in SCI)
- XXX. **A Comparative Study on the Microstructure Evaluation of Thixoforged A356 and A380 Aluminium Alloys**
GÜLER K. A. , GECÜ R., KISASÖZ A., KARAASLAN A.
PRAKTISCHE METALLOGRAPHIE-PRACTICAL METALLOGRAPHY, vol.54, no.3, pp.163-177, 2017 (Journal Indexed in SCI)
- XXXI. **EFFECT OF ETCHING METHODS IN METALLOGRAPHIC STUDIES OF DUPLEX STAINLESS STEEL 2205**
KISASÖZ A., KARAASLAN A., BAYRAK Y.
METAL SCIENCE AND HEAT TREATMENT, vol.58, pp.704-706, 2017 (Journal Indexed in SCI)
- XXXII. **Characteristics of austenitic stainless steel T-joints welded using the DMAG process with solid wire**
MERT T., Gültekin N., KARAASLAN A.

- MATERIALS TESTING, vol.58, no.9, pp.778-781, 2016 (Journal Indexed in SCI)
- XXXIII. **Dry Sliding Wear Behavior of Cast A7075 and A7075/SAF 2205 Composite Material**
KARAASLAN A., KISASÖZ A., ATAPEK Ş. H. , GÜLER K. A.
HIGH TEMPERATURE MATERIALS AND PROCESSES, vol.35, no.5, pp.487-492, 2016 (Journal Indexed in SCI)
- XXXIV. **Effect of Annealing Time and Cooling Rate on Precipitation Processes in a Duplex Corrosion-Resistant Steel**
KISASÖZ A., Gurel S., KARAASLAN A.
METAL SCIENCE AND HEAT TREATMENT, vol.57, pp.544-547, 2016 (Journal Indexed in SCI)
- XXXV. **Evaluation of double channel GMAW fillet welds of low carbon steel using solid wire**
MERT T., Gultekin N., KARAASLAN A.
MATERIALS TESTING, vol.57, pp.680-684, 2015 (Journal Indexed in SCI)
- XXXVI. **A study of expanded polyethylene (EPE) pattern application in aluminium lost foam casting**
GÜLER K. A. , KISASÖZ A., KARAASLAN A.
RUSSIAN JOURNAL OF NON-FERROUS METALS, vol.56, no.2, pp.171-176, 2015 (Journal Indexed in SCI)
- XXXVII. **Fillet welding of austenitic stainless steel using the double channel shielding gas method with cored wire**
MERT T., Gultekin N., KARAASLAN A.
MATERIALS TESTING, vol.57, no.1, pp.91-94, 2015 (Journal Indexed in SCI)
- XXXVIII. **Mechanical and Microstructural Evaluation of DMAG Welding of Structural Steel**
MERT T., Gultekin N., KARAASLAN A.
ADVANCES IN MECHANICAL ENGINEERING, vol.7, no.1, 2015 (Journal Indexed in SCI)
- XXXIX. **Investigation of Al/Steel Bimetal Composite Fabrication by Vacuum Assisted Solid Mould Investment Casting**
GÜLER K. A. , KISASÖZ A., KARAASLAN A.
ACTA PHYSICA POLONICA A, vol.126, no.6, pp.1327-1330, 2014 (Journal Indexed in SCI)
- XL. **Effects of pattern coating and vacuum assistance on porosity of aluminium lost foam castings**
GÜLER K. A. , KISASÖZ A., KARAASLAN A.
Russian Journal of Non-Ferrous Metals, vol.55, no.5, pp.424-428, 2014 (Journal Indexed in SCI)
- XLI. **Fabrication of Al/Mg bimetal compound casting by lost foam technique and liquid-solid process**
GÜLER K. A. , KISASÖZ A., KARAASLAN A.
Materialprüfung/Materials Testing, vol.56, no.9, pp.700-702, 2014 (Journal Indexed in SCI)
- XLII. **Investigation of lost foam casted aluminum bimetal microstructures**
GÜLER K. A. , KISASÖZ A., KARAASLAN A.
Materialprüfung/Materials Testing, vol.56, no.9, pp.737-740, 2014 (Journal Indexed in SCI)
- XLIII. **Finite Element Analysis of 2205 Duplex Stainless Steel Welds**
KISASÖZ A., KARAASLAN A.
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- XLIV. **Effects of alloying elements with various heat treatment processes on the properties of high speed steels**
KISASÖZ A., TOPTOP G., KARAASLAN A.
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- XLV. **The fabrication and characterization of Al/SiC-MMC castings produced by vacuum assisted solidmould investment casting process**
Guler K. A. , KISASÖZ A., KARAASLAN A.
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- XLVI. **Effect of Alloying Elements on the Tooling Capabilities of High Speed Steels Fabricated by Powder Metallurgy**
Toptop G. O. , KISASÖZ A., KARAASLAN A.
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- XLVII. **Infiltration of A6063 aluminium alloy into SiC-B4C hybrid preforms using vacuum assisted block mould investment casting technique**

KISASÖZ A., GÜLER K. A. , KARAASLAN A.

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Kisasoz A., Karaaslan A.
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- XLIX. **Effects of Co as an alloying element and heat treatment processes on the properties of high speed steels**
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- L. **Mechanical properties of A6063/ SiC composites produced using the lost foam casting process**
Güler K. A. , Kisasoz A., Yuksel C., Karaaslan A.
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Kisasoz A., Güler K. A. , Karaaslan A.
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- LIII. **Processing and microstructural characterisation of AA 1070 and AA 6063 matrix B4Cp reinforced composites**
Toptan F., Kilicarslan A., Karaaslan A., Çiğdem M., Kerti I.
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- LIV. **Formation of the Stress-Relieved Structure in the Welded Region of Gas Tungsten Arc Welded Armor Steel with the Help of Heat Distribution**
KARAASLAN A., Akça C.
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- LV. **Production of a Glass Fiber Reinforced Polymer Matrix Composite by Injection Moulding and its Characterization**
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- LVI. **Formability Characteristics of Industrial Pure Aluminum at Casting and Room Temperature**
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- LVII. **The Effect of Austempering Time on Heat Affected Zone in Gas Tungsten Arc Welding of Unalloyed Austempered Ductile Iron**
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- LVIII. **Einfluss von Zusatzwerkstoffe auf die Schweißbarkeit von der Aluminiumlegierung AlZnMg beim Wolfram-Inertgasschweissen**
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- LIX. **Crack Avoidance by Using Titanium as Filler Material for Laser Welding of a Chromium Steel with a Nickel Alloy**
Karaaslan A.
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 KARAASLAN A., Akca C.
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- LXI. **Tensile Strength and Impact Toughness of an AA 7075-T6 Alloy Effects of Aging Temperature and Time During Retrogression Treatment**
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- LXII. **Effect of aging temperature and of retrogression treatment time on the microstructure and mechanical properties of alloy AA 7075**
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- LXIII. **Crack avoidance during powder metallurgy of a SiC particel reinforced aluminium alloy A 6063**
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- LXIV. **Effect of Water Storage on The Mechanical Properties of Zinc Polycarboxylate Cements**
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- LXV. **Modellierung der mikrostrukturellen Aenderungen in heterogenen Verbindungen**
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- LXVI. **Wolfram-Inertgasschweißen der Aluminiumlegierung AlMgSi1 mit und ohne Zusatzwerkstoff**
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- LXVII. **Influence of cold work and plate thickness on the gas-tungsten arc weldability of commercially pure aluminium**
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- LXVIII. **Schweißen von Reintitanblechen: Laserstrahlschweissen und WIG-Schweissen von kommerziellen Reintitanblech**
 KARAASLAN A.
 MATERIALPRUFUNG, vol.46, no.9, pp.452-454, 2004 (Journal Indexed in SCI Expanded)
- LXIX. **Schweißen von technisch reinem Titan: WIG-Schweissen mit der Titanlegierung TiAl6V4**
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 MATERIALPRUFUNG, vol.46, no.9, pp.449-451, 2004 (Journal Indexed in SCI Expanded)
- LXX. **Laserlegieren von Schnellarbeitstaehlen, Durch die Waermebehandlung bedingte Eigenschaftsaenderungen von laserlegierten Schnellarbeitstaehlen**
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- LXXI. **Joining of S 6-5-2 and 4140 steel with flash welding**
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- LXXII. **Examining the changes of hardness of different materials joined by laser beam**
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- LXXIII. **Heißrissbildung beim Schweißen: Charakterisieren heterogener Lichtbogenschweißverbindungen**
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KARAASLAN A.

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Articles Published in Other Journals

- I. **Determination of Temperature Gradient in TIG Welding of Duplex Stainless Steel**
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El-Cezerî Journal of Science and Engineering, vol.4, pp.593-597, 2017 (National Refreed University Journal)
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