

Prof. ARİF DEMİR

Personal Information

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Education Information

Doctorate, University of Essex, Fizik, Fizik, United Kingdom 1994 - 1997

Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, Turkey 1985 - 1991

Research Areas

Physics, Gases, Plasmas and Electrical Discharges Physics, Physics of Plasmas, Natural Sciences

Academic Titles / Tasks

Professor, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2005 - Continues

Associate Professor, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1999 - 2005

Assistant Professor, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1997 - 1999

Research Assistant, Kocaeli University, Fen-Edebiyat Fakültesi, Fizik Bölümü, 1993 - 1997

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Physics, 1991 - 1993

Academic and Administrative Experience

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2013 - Continues

Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Elektro-Optik Sistem Mhendisliği (YL), 2010 - 2015

Kocaeli Üniversitesi, Fizik Bölümü, 2006 - 2012

Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, 2000 - 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the differences between photochemical and photothermal laser ablation on the shear strength of CFRP/CFRP adhesive joints**
AKMAN E., Erdogan Y., BORA M. Ö., ÇOBAN O., Oztoprak B., Demir A.
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- II. **The Effect of CO2 Laser-Induced Microhole Formations on Adhesive Bonding Strength of CFRP/CFRP Joints**
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- IV. **Functionalized Hybrid Coatings on ABS Surfaces by PLD and Dip Coatings**
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- V. **Al₂O₃ micro- and nanostructures affect vascular cell response**
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RSC Advances, vol.6, pp.17460-17469, 2016 (SCI-Expanded)
- VI. **The interaction of positive streamers with bubbles floating on a liquid surface**
AKİSHEV Y., AREFİ-KHONSARİ F., DEMİR A., GRUSHİN M., KARALNİK V., Petryakov A., Trushkin N.
PLASMA SOURCES SCIENCE & TECHNOLOGY, vol.24, no.6, 2015 (SCI-Expanded)
- VII. **Near surface modification of aluminum alloy induced by laser shock processing**
Saklakoglu N., Gencalp Irizalp S., Akman E., Demir A.
Optics and Laser Technology, vol.64, pp.235-241, 2014 (SCI-Expanded)
- VIII. **Pulsed Nd: YAG laser shock processing effects on mechanical properties of 6061-T6 alloy**
Gencalp Irizalp S., Saklakoglu N., Akman E., Demir A.
Optics and Laser Technology, vol.56, pp.273-277, 2014 (SCI-Expanded)
- IX. **Femtosecond laser treatment of 316L improves its surface nanoroughness and carbon content and promotes osseointegration: An in vitro evaluation**
Kenar H., Akman E., Kaçar E., Demir A., Park H., Abdul-Khalıq H., Aktas C., Karaoz E.
Colloids and Surfaces B: Biointerfaces, vol.108, pp.305-312, 2013 (SCI-Expanded)
- X. **Study of the fragmentation phenomena of TiO₂ nanoparticles produced by femtosecond laser ablation in aqueous media**
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- XI. **Reduced myofibroblast differentiation on femtosecond laser treated 316LS stainless steel**
Oberringer M., Akman E., Lee J., Metzger W., Akkan C. K., Kaçar E., Demir A., Abdul-Khalıq H., Pütz N., Wennemuth G., et al.
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- XII. **Analysis and Classification of Heterogeneous Kidney Stones Using Laser-Induced Breakdown Spectroscopy (LIBS)**
Oztoprak B., Gonzalez J., Yoo J., Gulecen T., MUTLU N., Russo R. E., GÜNDOĞDU Ö., DEMİR A.
APPLIED SPECTROSCOPY, vol.66, no.11, pp.1353-1361, 2012 (SCI-Expanded)
- XIII. **Optimization of Nd:YAG Laser Welding of Magnesium**
DEMİR A., AKMAN E., CANEL T., Ertuerk S., KAYA A. A., Kenar N., SINMAZÇELİK T., URHAN O.
JOURNAL OF LASER MICRO NANOENGINEERING, vol.2, no.1, pp.108-113, 2007 (SCI-Expanded)
- XIV. **Spectroscopic measurements of electron temperature and electron density in electron beam plasma generator based on collisional radiative model**
GÖKTAŞ H., Demir A., Kacar E., Hegazy H., TURAN R., ÖKE G., SEYHAN A.
SPECTROSCOPY LETTERS, vol.40, no.1, pp.183-192, 2007 (SCI-Expanded)
- XV. **Modelling of the Ni-like and Co-like line emission from Ni-like Silver X-ray laser media**
Kacar E., Demir A., Tallents G. J.
JOURNAL OF PLASMA PHYSICS, vol.72, pp.1263-1267, 2006 (SCI-Expanded)
- XVI. **Simulation of Ni-like and Co-like X-rays emitted from laser produced tin plasmas**
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CZECHOSLOVAK JOURNAL OF PHYSICS, vol.56, 2006 (SCI-Expanded)
- XVII. **Modelling of the Ni like Tin X Ray Laser Driven by 1 2 ps Short Pulse and 280 ps Background Pulse Configuration**
DEMİR A., KAÇAR E., GÖKTAŞ H., TALLENTS G.
Institute of Physics Conference Series, vol.186, pp.401-404, 2005 (SCI-Expanded)

- XVIII. **A collisional-radiative model for simulation of Ne-like and F-like resonance lines emitted from laser produced plasmas**
Hajiyev E., Demir A.
COMPUTER PHYSICS COMMUNICATIONS, vol.164, pp.86-90, 2004 (SCI-Expanded)
- XIX. **Using low and high prepulses to enhance the J=0-1 transition at 19.6 nm in the Ne-like germanium XUV laser**
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Articles Published in Other Journals

- I. **Laser-induced breakdown spectroscopy is a reliable method for urinary stone analysis**
MUTLU N., Ciftci S., GULECEN T., Oztoprak B., DEMİR A.
TURKISH JOURNAL OF UROLOGY, vol.42, no.1, pp.21-26, 2016 (ESCI)
- II. **Molecular Analysis of Sea Water of The Gulf of Izmit By Raman Spectroscopy**
Arzu A., Kaçar E., Güneş M., Genç Öztoprak B., Akman E., Demir A.
BALKAN PHYSICS LETTERS, vol.23, pp.82-93, 2015 (Peer-Reviewed Journal)
- III. **Classification of archaeological ceramics analyzed by laser induced breakdown spectroscopy LIBS**
Mesadet Asuman S., Genç Öztoprak B., Akman E., Güneş M., Kaçar E., Tülek F., Demir A.
Balkan Physics Letters, vol.22, pp.24-35, 2014 (Peer-Reviewed Journal)
- IV. **Classification of archaeologic ceramics analysed by laser induced breakdown spectroscopy LIBS**
MA S., GENÇ ÖZTOPRAK B., AKMAN E., GÜNEŞ M., KAÇAR E., TÜLEK F., DEMİR A.
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- V. **Synthesis of Zirconia Nanoparticles in Distilled Water Solution by Laser Ablation Technique**
Adel K M., Fadhill Z., Alnassar S. İ., Firat İ H., AKMAN E., DEMİR A.
Journal of Materials Science and Engineering B, vol.3, no.6, pp.364-368, 2013 (Peer-Reviewed Journal)
- VI. **Conversion efficiency calculations for EUV radiation emitted from laser-produced Tin plasmas**
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- VII. **Drilling Process of Ceramic Using Nanosecond Nd YAG Laser**
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- VIII. **Analytical and Experimental Investigation of Emission Emitted During the Laser Ablation**
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- IX. **Modeling of ni-like molybdenum x-ray laser**
Kurnali S., DEMİR A., KAÇAR E.
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- X. **Monitoring of Laser Material Welding Process Using UV Visible Spectrometer**
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American Institute of Physics, vol.899, pp.319-320, 2007 (Peer-Reviewed Journal)
- XI. **Simulation of Longitudinally Pumped Ni Like Molybdenum X Ray Laser Medium Using Post Processor Code Coupled to EHYBRID**
KAÇAR E., DEMİR P., DEMİR KUZU P., DEMİR A., YALTKAYA Ş.
X-Ray Lasers 2006, Springer Proceedings in Physics, vol.115, pp.347-351, 2007 (Peer-Reviewed Journal)
- XII. **Progresses on the Theoretical and Experimental Studies in Laser Technologies Research and Application Center In Kocaeli**
AKMAN E., ATALAY B., CANDAN L., CANEL T., DEMİR A., DEMİR P., ERTÜRK S., GENÇ ÖZTOPRAK B., KAÇAR E., KENAR N., et al.
American Institute of Physics, vol.899, pp.331-332, 2007 (Peer-Reviewed Journal)

- XIII. **Optimizatin Of Pulsed Nd YAG Laser ParametersFor TitaniumSeam Welding**
AKMAN E., CANEL T., DEMİR A., SINMAZÇELİK T.
American Institute of Physics, pp.303-304, 2007 (Peer-Reviewed Journal)
- XIV. **Effects of shielding gas on absorption energy of Nd YAG laser for aluminium welding**
Mesure M., AKMAN E., DEMİR A.
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, vol.899, pp.327-328, 2007 (Peer-Reviewed Journal)
- XV. **Effect of pulsed Nd YAG laser powers on 304 stainless steel welding**
CANDAN L., DEMİR A., AKMAN E.
FRONTIERS OF FUNDAMENTAL AND COMPUTATIONAL PHYSICS, pp.311-312, 2007 (Peer-Reviewed Journal)
- XVI. **Longitudinally Pumped Ne Like Titanium X Ray Laser Simulation with a Post Processor Code Coupled to Ehybrid**
Demir A., Akman E., Sinan Kadri B., Demir P., Sevi İ., Kaçar E., Elif Y., Yaltkaya Ş.
X-Ray Lasers 2006, Springer Proceedings in Physics, vol.115, pp.341-346, 2007 (Peer-Reviewed Journal)
- XVII. **Collisional Radiative Modelling of the Ne like and F like line emission from Ne Like Ti X Ray Laser**
KAÇAR E., DEMİR A., TALLENTS G.
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Refereed Congress / Symposium Publications in Proceedings

- I. **SPECTROSCOPIC SURFACE INVESTIGATION OF LASER TREATED CFRPS TO ACHIEVE OPTIMUM ADHESIVE BONDING**
BORA M. Ö., GENÇ ÖZTOPRAK B., AKMAN E., ÇOBAN O., DEMİR A.
THEINTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY ANDINNOVATION, 7 - 11 March 2018, pp.9
- II. **NOVEL SURFACE STRUCTURING OF CFRPS FOR ADHESIVE BONDING: EFFECT OF LASER INDUCED SCRIBE PATTERN ANGLE ON ADHESION STRENGTH**
ÇOBAN O., AKMAN E., BORA M. Ö., GENÇ ÖZTOPRAK B., DEMİR A.
II INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND INNOVATION, 7 - 11 March 2018, pp.12
- III. **EFFECT OF MECHANICAL INTERLOCKING WITH VARIOUS MICRO HOLE FORMATIONS ON THE ADHESIVE BONDING STRENGTH OF CFRP/CFRP JOINTS**
BORA M. Ö., ERDOĞAN Y., AKMAN E., ÇOBAN O., GENÇ ÖZTOPRAK B., DEMİR A.
II INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND INNOVATION, 7 - 11 March 2018, pp.10
- IV. **EFFECTS OF THE LASER WAVELENGTH ON THE PRE-TREATMENT OF CARBON FIBER-REINFORCED PLASTICS FOR ADHESIVE JOINT**
ÇOBAN O., ERDOĞAN Y., AKMAN E., BORA M. Ö., GENÇ ÖZTOPRAK B., DEMİR A.
II INTERNATIONAL CONFERENCE ON ENGINEERING TECHNOLOGY AND INNOVATION, 7 - 11 March 2018, pp.11
- V. **TiB2 ve Al2O3 ince filmlerin LIBS ile analizleri**
DEMİR A., GENÇ ÖZTOPRAK B., AKMAN E., NIELSEN L.
19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 29 September 2017, pp.18
- VI. **Metallerin sıvı içinde LIBS tekniği ile tespiti**
DEMİR A., GENÇ ÖZTOPRAK B., AKMAN E., AKBIYIK B.
19. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, İstanbul, Turkey, 29 September 2017, pp.22
- VII. **Laser Structuring of CFRP Surface for Adhesive Bonding Using Michelson Interferometer and Laser Beam**
ERDOĞAN Y., AKMAN E., ÇOBAN O., BORA M. Ö., GENÇ ÖZTOPRAK B., DEMİR A.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017, pp.512
- VIII. **Effect of Bondline Thickness on Adhesive Bonding of Laser Treated Carbon Fiber Reinforced Composites**
AKMAN E., ERDOĞAN Y., BORA M. Ö., ÇOBAN O., GENÇ ÖZTOPRAK B., DEMİR A.
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 3 - 07 May 2017,

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- IX. **Investigation of laser induced line pattern surface structuring effect on adhesive bonding of CFRP aircraft composites**
ÇOBAN O., AKMAN E., BORA M. Ö., GENÇ ÖZTOPRAK B., DEMİR A.
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 3 - 07 May 2017, pp.1084-1089
- X. **Study Of Laser Induced Micro-Hole Configuration In Order To Exploit Mechanical Interlocking Effect On Adhesive Bonding**
BORA M. Ö., AKMAN E., ÇOBAN O., GENÇ ÖZTOPRAK B., DEMİR A.
III INTERNATIONAL CONFERENCE ON ENGINEERING AND NATURAL SCIENCES (ICENS), 3 - 07 May 2017, pp.864-869
- XI. **Analysis of Laser Treated CFRP Surfaces by Laser-Induced Breakdown Spectroscopy**
GENÇ ÖZTOPRAK B., AKMAN E., ÇOBAN O., BORA M. Ö., DEMİR A.
CSI XL - IX EMSLIBS, 11 - 16 June 2017, pp.257
- XII. **Identification and Classification of Polymers Using LIBS and Chemometry**
GENÇ ÖZTOPRAK B., AKMAN E., DEMİR A.
3rd International Turkish Congress on Molecular Spectroscopy, 26 - 29 August 2017
- XIII. **Discrimination of Polymers By Using Laser-induced Breakdown Spectroscopy and Chemometric Techniques**
GENÇ ÖZTOPRAK B., AKMAN E., DEMİR A.
Colloquium Spectroscopicum Internationale XL, 11 - 16 June 2017
- XIV. **Analysis of TiO₂ NPs in Liquid Environment Using LIBS**
DEMİR A., AKMAN E., GENÇ ÖZTOPRAK B.
The International Conference on Plasmas with Liquids (ICPL 2017), 5 - 09 March 2017
- XV. **Yüksek Frekanslı Lazer Darbeleri ile Yüzey Temizleme Lazer Uygulama Kafasının Tasarımı ve Prototipi Üretilerek Paslı Metal Yüzeyin Temizlenmesi**
Köse B., Bingül Z., Demir A.
18. Ulusal Optik Elektro-Optik ve Fotonik Çalıştayı, Ankara, Turkey, 23 September 2016
- XVI. **Depth Analysis of DLC TiB₂ and Al₂O₃ Thin Films by LIBS**
DEMİR A., GENÇ ÖZTOPRAK B., AKMAN E., NIELSEN L.
The 9th International Conference on Laser-Induced Breakdown Spectroscopy (LIBS), 12 - 16 September 2016
- XVII. **Depth analysis of DLC TiB₂ and Al₂O₃ thin films by LIBS**
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The 9th International Conference on Laser-Induced Breakdown Spectroscopy (LIBS), France, 12 - 16 September 2016
- XVIII. **Applications of Laser Induced Breakdown Spectroscopy Combined with Chemometric Techniques**
GENÇ ÖZTOPRAK B., AKMAN E., DEMİR A.
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- XIX. **Application of Laser Induced Breakdown Spectroscopy Combined with Chemometric Techniques**
GENÇ ÖZTOPRAK B., AKMAN E., DEMİR A.
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- XX. **Plasma Enhancement of DLC Thin Films Using Double Pulse LIBS Technique**
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- XXI. **Plasma enhancement of DLC thin films using double pulse LIBS technique**
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International Conference on Electrical Discharges with Liquids, 13 - 17 March 2016
- XXII. **Production of TiO₂ NPs in Liquid Environment Using Nanosecond Double Pulse Lasers**
AKMAN E., İRFAN M., GENÇ ÖZTOPRAK B., DEMİR A.
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- XXIII. **Detection of metals in water droplets using double pulse laser induced breakdown spectroscopy**

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XXIV. **Design and Construction of Q switched Ho YAG laser and its application in water**

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International Conference on Electrical discharges with liquids for future applications, 13 - 17 March 2016

XXV. **Nanoradian Angle Measurements Using Differential Fabry Perot Interferometer**

ÇELİK m., ŞAHİN E., DEMİR A.

Conference on Precision Electromagnetic Measurements (CPEM), Poland, 9 - 11 March 2016

XXVI. **Sub nanometre length metrology**

ANDREAS B., ÇELİK M., DEMİR A.

11th Seminar on Quantitative Microscopy (QM) and 7th Seminar on Nanoscale Calibration Standards and Methods, 9 - 11 March 2016

XXVII. **Development of Ho YAG Laser for Lithotripsy**

İRFAN M., ERDOĞAN Y., AKMAN E., GÜNEŞ M., GENÇ ÖZTOPRAK B., DEMİR A.

17. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 18 September 2015

XXVIII. **Analysis of Nanodesigned Coatings by Laser Induced Breakdown Spectroscopy LIBS**

AKMAN E., GENÇ ÖZTOPRAK B., GÜNEŞ M., İRFAN M., ERDOĞAN Y., DEMİR A.

11th Nanoscience and Nanotechnology Conference (NanoTR-11), 22 - 24 June 2015

XXIX. **Depth Analysis of Multilayer Thin Films Using Laser Induced Breakdown Spectroscopy**

AKMAN E., GÜNEŞ M., GENÇ ÖZTOPRAK B., ERDOĞAN Y., İRFAN M., DEMİR A.

", 11th Frontiers in Low Temperature Plasma Diagnostic (FLPTD-XI), 24 - 28 May 2015

XXX. **Effect of Electrical Discharge on Laser Produced Nanoparticles in Liquid**

ERDOĞAN Y., İRFAN M., GÜNEŞ M., GENÇ ÖZTOPRAK B., AKMAN E., DEMİR A.

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XXXI. **Depth analyses of multilayer thin film by laser induced breakdown spectroscopy LIBS**

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International Middle East Plasma Science- IMEPS2014, Antalya, Turkey, 23 - 25 April 2014

XXXII. **Effects of Laser Pulse Duration on Nanoparticle Size of Silver Nanoparticle**

AKMAN E., YALAZA E., GENÇ ÖZTOPRAK B., GÜNEŞ M., KAÇAR E., DEMİR A.

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XXXIII. **Structural and Optical Properties of TiO₂ Al₂O₃ Composite Thin Films Grown by Pulsed Laser Deposition Science and Applications of Thin Films**

MUTLU ŞANLI M., KAÇAR E., SINMAZ M. A., GENÇ ÖZTOPRAK B., DEMİR A.

Science and Applications of Thin Films, Conference & Exhibition -SATF, 15 - 19 September 2014

XXXIV. **Structural and Optical Properties of TiO₂ Al₂O₃ Composite Thin Films Grown by Pulsed Laser Deposition**

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XXXV. **Molecular Analysis of Sea Water of the Gulf of Izmit by Raman Spectroscopy**

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Turkish Physical Society 31th International Physics Congress – TFD3, İzmir, Turkey, 21 - 24 July 2014, pp.266

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Sınmaz A. M., GENÇ ÖZTOPRAK B., GÜNEŞ M., AKMAN E., KAÇAR E., DEMİR A.

FOTONİK 2014 16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 05 September 2014

XXXVII. **Nano saniye Nd YAG Lazer Kullanılarak Titanyum ve Paslanmaz Çelik Yüzeylerde Periyodik Yüzey Yapılarının Oluşturulması**

İKİER T., DEMİR KUZU P., KAÇAR E., DEMİR A.

16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı-FOTONİK 2014, Kocaeli, Turkey, 05 September 2014, pp.45

XXXVIII. **Raman Spektroskopisi ile İzmit Körfezi Deniz Suyunun Moleküler Analizi**

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FOTONİK 2014 16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı, Turkey, 05 September 2014

XXXIX. Lazerle Oluşturulan Plazmaların Optik Yayınım Çalışmaları

SINMAZ M. A., GENÇ ÖZTOPRAK B., GÜNEŞ M., AKMAN E., KAÇAR E., DEMİR A.

16. Ulusal Optik, elektro-Optik ve Fotonik Çalıştayı- FOTONİK 2014, Kocaeli, Turkey, 05 September 2014, pp.34

XL. Titanyum Üzerine Renkli Markalamada Lazer Tarama Hızının Etkisi

YALAZA E., AKMAN E., KAÇAR E., DEMİR A.

16. Ulusal Optik, Elektro-Optik ve Fotonik Çalıştayı-FOTONİK 2014, Kocaeli, Turkey, 05 September 2014, pp.23

XLI. Depth and element analysis of thin films by laser induced breakdown

DEMİR A., SINMAZ M. A., GÜNEŞ M., GENÇ ÖZTOPRAK B., AKMAN E., NIELSEN L.

NanoTR 10 10th Nanoscience and Nanotechnology Conference, Turkey, 19 - 20 June 2014

XLII. Characteristics of Metal Doped TiO₂ and Al₂O₃ Thin Films Deposited by PLD

MUTLU ŞANLI M., KAÇAR E., DEMİR A.

LPM2014 - the 15th International Symposium on Laser Precision MicrofabricationLPM2014 - the 15th

International Symposium on Laser Precision Microfabrication, Vilnius, Lithuania, 17 - 20 June 2014, vol.14, pp.37

XLIII. Depth analyses of laser produced multilayer thin films using laser induced breakdown spectroscopy

SINMAZ A. M., GENÇ ÖZTOPRAK B., MESURE M. Ş., GÜNEŞ M., AKMAN E., KAÇAR E., DEMİR A.

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XLIV. Laser patterning on surface of metals using nanosecond Nd YAG laser irradiation

Kaçar E., İkier T., Demir Kuzu P., Akman E., Demir A.

LPM2014 - the 15th International Symposium on Laser Precision Microfabrication, Vilniaus, Lithuania, 17 - 20 June 2014, vol.14, pp.5

XLV. Physical Mechanism of Color Marking on Titanium

YALAZA E., AKMAN E., KAÇAR E., DEMİR A.

LPM2014 - 15th International Symposium on Laser Precision Microfabrication, Vilnius, Lithuania, 17 - 20 June 2014

XLVI. Nanosecond Pulsed Nd YAG Laser Ablation of Ti and Zn Materials

DEMİR KUZU P., TUBA İ., KAÇAR E., DEMİR A.

LPM2014 - 15th International Symposium on Laser Precision Microfabrication, 17 - 20 June 2014

XLVII. Lazerle oluşturulan Zn plazmasının karakteristik özelliklerinin belirlenmesi

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