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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1990 - 1994

Yüksek Lisans, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, Türkiye 1987 - 1990

Lisans, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1982 - 1987

Yaptığı Tezler

Doktora, Investigation of Si_{1-x}Gex alloy formation by using STM, Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1994

Yüksek Lisans, Construction of a scanning tunneling microscope and first results, Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1990

Akademik Unvanlar / Görevler

Prof.Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2014 - Devam Ediyor

Prof.Dr., Sabancı Üniversitesi, Mühendislik Ve Doğa Bilimleri Fakültesi, Mühendislik Ve Doğa Bilimleri Programları Bölümü, 2008 - 2013

Prof.Dr., İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2006 - 2008

Doç.Dr., İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 2002 - 2006

Yrd.Doç.Dr., İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1999 - 2002

Öğretim Görevlisi Dr., University Of Oxford, Department Of Materials, 1998 - 1999

Öğretim Görevlisi Dr., University Of Oxford, Department Of Materials, 1997 - 1998

Öğretim Görevlisi Dr., University Of Bath, Science, School Of Physics, 1994 - 1997

Araştırma Görevlisi, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Fizik Bölümü, 1987 - 1994

Yönetilen Tezler

ORAL A., Ultra-yüksek-çözünürlük düşük sıcaklıklı manyetik kuvvet mikroskopisi, Yüksek Lisans, A.Badami(Öğrenci), 2019

ORAL A., Non-contact atomic force microscope in ultra high vacuum using radiation pressure excitation of cantilever with Fabry-Perot interferometer, Yüksek Lisans, E.KARAGÖZ(Öğrenci), 2017

ORAL A., TOPOLOJİK YALITKANLARIN VE TOPOLOJİK SÜPERİLETKENLERİN MANYETİK ÖZELLİKLERİNİN TARAMALI UÇ MİKROSKOPLARI (TUM) TEKNİKLERİ İLE ARAŞTIRILMASI, Doktora, K.ÇELİK(Öğrenci), 2017

ORAL A., Non-contact atomic force microscope operation in ultra high vacuum using radiation pressure excitation of cantilever, Yüksek Lisans, Y.UYSALLI(Öğrenci), 2016

ORAL A., Determination of photon momentum transfer between different mediums using interferometry of an angled silica fiber filament, Yüksek Lisans, E.ÖZGÖNÜL(Öğrenci), 2016

- ORAL A., Design of a self-aligned, high resolution, low temperature (30 mK - 300 K) magnetic force microscope, Doktora, Ö.KARCI(Öğrenci), 2015
- ORAL A., Development, fabrication and characterization of graphene and bismuth hall sensors for scanning hall probe microscopy, Doktora, S.SONUŞEN(Öğrenci), 2015
- ORAL A., Design of an advanced atomic force microscope control electronics using FPGA, Yüksek Lisans, İ.KEHRİBAR(Öğrenci), 2013
- ORAL A., Mechanically exfoliated single and multilayer graphene sheets and graphene field effect transistor, Yüksek Lisans, S.MANUKYAN(Öğrenci), 2009
- ORAL A., Development of nano Hall sensors for high resolution scanning Hall probe microscopy, Doktora, M.DEDE(Öğrenci), 2008
- ORAL A., Investigation of lateral forces in dynamic mode AFM/STM, Doktora, M.ATABAK(Öğrenci), 2007
- ORAL A., Scanning hall probe microscopy (SHPM) using quartz crystal AFM feedback, Yüksek Lisans, K.ÜRKMEN(Öğrenci), 2005
- ORAL A., Fabrication and characterization of GaAs and InAs hall sensors, Yüksek Lisans, S.ÖZDEMİR(Öğrenci), 2004
- ORAL A., Fabrication and characterization of bismuth hall sensors at room temperature, Yüksek Lisans, G.BAYER(Öğrenci), 2003
- ORAL A., Construction of an atomic force microscope operating in air and liquid, Yüksek Lisans, M.KARAKÖSE(Öğrenci), 2003
- ORAL A., Investigation of the magnetic properties of BSCCO superconductors with scanning hall probe microscope, Yüksek Lisans, M.DEDE(Öğrenci), 2002
- ORAL A., Microfabrication of micro hall sensors on GaAs and InSb for scanning hall probe microscopy, Yüksek Lisans, M.MURAT(Öğrenci), 2001
- ORAL A., Atomic resolution imaging and force spectroscopy of silicon surfaces with atomic force microscopy, Doktora, H.ÖZGÜR(Öğrenci), 2001
- ORAL A., Simultaneous STM/ AC-AFM investigation of clean Si(001)-(2x1) surface and Ge epitaxial growth on Si(001)-(2x1), Yüksek Lisans, M.ATABAK(Öğrenci), 2001

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Interpretation of SARS-CoV-2 behaviour on different substrates and denaturation of virions using ethanol: an atomic force microscopy study**
ÇELİK Ü., ÇELİK K., Celik S., ABAYLI H., ŞAHNA K., TONBAK Ş., AŞCI TORAMAN Z., ORAL A.
RSC ADVANCES, cilt.10, sa.72, ss.44079-44086, 2020 (SCI İndekslerine Giren Dergi)
- II. **Chemical vapor deposition of molybdenum disulphide on platinum foil**
Karamat S., Hassan M. U. , Pan J. S. , Tabassam L., ORAL A.
MATERIALS CHEMISTRY AND PHYSICS, cilt.249, 2020 (SCI İndekslerine Giren Dergi)
- III. **1 fm/root Hz noise level low temperature Fabry-Perot atomic force/magnetic force microscope operating in 4-300 K temperature range**
Karc O., Celik U., Oral A.
REVIEW OF SCIENTIFIC INSTRUMENTS, cilt.91, sa.1, 2020 (SCI İndekslerine Giren Dergi)
- IV. **Multilayer graphene growth on polar dielectric substrates using chemical vapour deposition**
KARAMAT S., Celik K., Zaman S. S. , ORAL A.
APPLIED SURFACE SCIENCE, cilt.442, ss.720-725, 2018 (SCI İndekslerine Giren Dergi)
- V. **Non-destructive patterning of 10nm magnetic island array by phase transformation with low-energy proton irradiation**
Dutta T., PATHAK S., ASBAHİ M., Celik K., Lee J. M. , Yang P., Saifullah M. S. M. , ORAL A., Bhatia C. S. , CHA J., et al.
APPLIED PHYSICS LETTERS, cilt.111, sa.15, 2017 (SCI İndekslerine Giren Dergi)
- VI. **Growth of nano-graphene on SrTiO3 (110) substrates by chemical vapour deposition**
KARAMAT S., Celik K., ORAL A.
MATERIALS CHEMISTRY AND PHYSICS, cilt.200, ss.187-195, 2017 (SCI İndekslerine Giren Dergi)

- VII. **Radiation pressure excitation of a low temperature atomic force/magnetic force microscope for imaging in 4-300 K temperature range**
 Celik U. L. , KARCI O., UYSALLI Y., Özer H. T. , ORAL A.
 REVIEW OF SCIENTIFIC INSTRUMENTS, cilt.88, sa.1, 2017 (SCI İndekslerine Giren Dergi)
- VIII. **3D scanning Hall probe microscopy with 700 nm resolution**
 DEDE M., AKRAM R., ORAL A.
 APPLIED PHYSICS LETTERS, cilt.109, sa.18, 2016 (SCI İndekslerine Giren Dergi)
- IX. **Graphene/SrTiO₃ hetero interface studied by X-ray photoelectron spectroscopy**
 KARAMAT S., KE C., Inkaya U. Y. , AKRAM R., YILDIZ İ., Zaman S. S. , ORAL A.
 PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, cilt.26, sa.4, ss.422-426, 2016 (SCI İndekslerine Giren Dergi)
- X. **Suitable alkaline for graphene peeling grown on metallic catalysts using chemical vapor deposition**
 KARAMAT S., Sonusen S., ÇELİK Ü., UYSALLI Y., ORAL A.
 APPLIED SURFACE SCIENCE, cilt.368, ss.157-164, 2016 (SCI İndekslerine Giren Dergi)
- XI. **Coalescence of few layer graphene grains grown by chemical vapor deposition and their stacking sequence**
 Karamat S., Sonusen S., Dede M., Uysalli Y., Ozgonul E., ORAL A.
 JOURNAL OF MATERIALS RESEARCH, cilt.31, sa.1, ss.46-54, 2016 (SCI İndekslerine Giren Dergi)
- XII. **Synthesis of few layer single crystal graphene grains on platinum by chemical vapour deposition**
 Karamat S., Sonusen S., ÇELİK Ü., UYSALLI Y., Ozgonul E., ORAL A.
 PROGRESS IN NATURAL SCIENCE-MATERIALS INTERNATIONAL, cilt.25, sa.4, ss.291-299, 2015 (SCI İndekslerine Giren Dergi)
- XIII. **Design of a self-aligned, wide temperature range (300 mK-300 K) atomic force microscope/magnetic force microscope with 10 nm magnetic force microscope resolution**
 Karci O., DEDE M., ORAL A.
 REVIEW OF SCIENTIFIC INSTRUMENTS, cilt.85, sa.10, 2014 (SCI İndekslerine Giren Dergi)
- XIV. **An ultra-low temperature scanning Hall probe microscope for magnetic imaging below 40 mK**
 Karci O., Piatek J. O. , Jorba P., DEDE M., Ronnow H. M. , ORAL A.
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- XV. **Single layer graphene Hall sensors for scanning Hall probe microscopy (SHPM) in 3-300 K temperature range**
 Sonusen S., KARCI Ö., DEDE M., Aksoy S., Oral A.
 APPLIED SURFACE SCIENCE, cilt.308, ss.414-418, 2014 (SCI İndekslerine Giren Dergi)
- XVI. **The effects of postdeposition annealing conditions on structure and created defects in Zn_{0.90}Co_{0.100} thin films deposited on Si(100) substrate**
 Can M. M. , Firat T., Shah S. I. , Bakan F., Oral A.
 JOURNAL OF MATERIALS RESEARCH, cilt.28, sa.5, ss.708-715, 2013 (SCI İndekslerine Giren Dergi)
- XVII. **High sensitivity and multifunctional micro-Hall sensors fabricated using InAlSb/InAsSb/InAlSb heterostructures**
 BANDO M., OHASHI T., Dede M., Akram R., Oral A., Park S. Y. , SHIBASAKI I., HANDA H., SANDHU A.
 JOURNAL OF APPLIED PHYSICS, cilt.105, sa.7, 2009 (SCI İndekslerine Giren Dergi)
- XVIII. **Noncontact lateral-force gradient measurement on Si(111)-7 x 7 surface with small-amplitude off-resonance atomic force microscopy**
 Atabak M., Unverdi O., Özer H. T. , Oral A.
 JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, cilt.27, sa.2, ss.1001-1005, 2009 (SCI İndekslerine Giren Dergi)
- XIX. **Imaging capability of pseudomorphic high electron mobility transistors, AlGa_N/Ga_N, and Si micro-Hall probes for scanning Hall probe microscopy between 25 and 125 degrees C**
 AKRAM R., Dede M., Oral A.
 JOURNAL OF VACUUM SCIENCE & TECHNOLOGY B, cilt.27, sa.2, ss.1006-1010, 2009 (SCI İndekslerine Giren Dergi)
- XX. **Variable Temperature-Scanning Hall Probe Microscopy With Ga_N/AlGa_N Two-Dimensional Electron Gas (2DEG) Micro Hall Sensors in 4.2-425 K Range Using Novel Quartz Tuning Fork AFM Feedback**

- Akram R., Dede A., Oral A.
IEEE TRANSACTIONS ON MAGNETICS, cilt.44, sa.11, ss.3255-3260, 2008 (SCI İndekslerine Giren Dergi)
- XXI. **Scanning Hall Probe Microscopy (SHPM) using quartz crystal AFM feedback**
Dede M., Uerkmen K., Girisen O., Atabak M., Oral A., Farrer I., Ritchie D.
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- XXII. **Solid or liquid? Solidification of a nanoconfined liquid under nonequilibrium conditions**
Patil S., MATEÍ G., Oral A., Hoffmann P. M.
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- XXIII. **A highly sensitive atomic force microscope for linear measurements of molecular forces in liquids**
PATÍL S., MATEÍ G., DONG H., HOFFMANN P., Karakose M., Oral A.
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- XXIV. **Direct measurement of molecular stiffness and damping in confined water layers**
JEFFERY S., HOFFMANN P. M. , PETHÍCA J. B. , RAMANUJAN C., ÖZER H. Ö. , Oral A.
PHYSICAL REVIEW B, cilt.70, sa.5, 2004 (SCI İndekslerine Giren Dergi)
- XXV. **Nano and micro Hall-effect sensors for room-temperature scanning hall probe microscopy**
SANDHU A., OKAMOTO A., SHÍBASAKÍ I., Oral A.
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- XXVI. **50 nm Hall sensors for room temperature scanning Hall probe microscopy**
SANDHU A., KUROSAWA K., DEDE M., Oral A.
JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS BRIEF COMMUNICATIONS & REVIEW PAPERS, cilt.43, sa.2, ss.777-778, 2004 (SCI İndekslerine Giren Dergi)
- XXVII. **Low-amplitude, force gradient imaging of Cu(100) surface using tunnel current feedback**
ÖZER H. Ö. , NORRIS A., Oral A., HOFFMANN P. M. , PETHÍCA J. B.
NANOTECHNOLOGY, cilt.15, sa.2, 2004 (SCI İndekslerine Giren Dergi)
- XXVIII. **High-sensitivity noncontact atomic force microscope/scanning tunneling microscope (nc AFM/STM) operating at subangstrom oscillation amplitudes for atomic resolution imaging and force spectroscopy**
Oral A., GRIMBLE R., ÖZER H. Ö. , PETHICA J.
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- XXIX. **Integrated piezoresistive sensors for atomic force-guided scanning Hall probe microscopy**
BROOK A. J. , BENDİNG S., PINTO J., Oral A., RÍTCHIE D., BEERE H., HENİNİ M., SPRİNGTHORPE A.
APPLIED PHYSICS LETTERS, cilt.82, sa.20, ss.3538-3540, 2003 (SCI İndekslerine Giren Dergi)
- XXX. **Measurement of energy dissipation between tungsten tip and Si(1 0 0)-(2 × 1) using sub-Ångström oscillation amplitude non-contact atomic force microscope**
Özer H. Ö. , Atabak M., Oral A.
Applied Surface Science, cilt.210, ss.12-17, 2003 (SCI Expanded İndekslerine Giren Dergi)
- XXXI. **Micromachined III-V cantilevers for AFM-tracking scanning hall probe microscopy**
BROOK A. J. , BENDİNG S., PINTO J., Oral A., RÍTCHIE D., BEERE H., SPRİNGTHORPE A., HENİNİ M.
JOURNAL OF MICROMECHANICS AND MICROENGINEERING, cilt.13, sa.1, ss.124-128, 2003 (SCI İndekslerine Giren Dergi)
- XXXII. **Room-temperature scanning Hall probe microscope (RT-SHPM) imaging of garnet films using new high-performance InSb sensors**
Oral A., Kaval M., DEDE M., MASUDA H., OKAMOTO A., SHÍBASAKÍ I., SANDHU A.
IEEE TRANSACTIONS ON MAGNETICS, cilt.38, sa.5, ss.2438-2440, 2002 (SCI İndekslerine Giren Dergi)
- XXXIII. **Room temperature scanning Hall probe microscopy using GaAs/AlGaAs and Bi micro-hall probes**
SANDHU A., MASUDA H., Oral A., Bending S., YAMADA A., KONAGAI M.
Ultramicroscopy, cilt.91, ss.97-101, 2002 (SCI İndekslerine Giren Dergi)
- XXXIV. **Simultaneous non-contact atomic force microscopy (nc-AFM)/STM imaging and force spectroscopy of Si(1 0 0)(2 × 1) with small oscillation amplitudes**
Özer H., Atabak M., Ellialtıglu R. M. , Oral A.
Applied Surface Science, cilt.188, ss.301-305, 2002 (SCI Expanded İndekslerine Giren Dergi)

- XXXV. **Energy dissipation in atomic force microscopy and atomic loss processes**
HOFFMANN P. M. , JEFFERY S., PETHICA J. B. , ÖZER H. Ö. , Oral A.
PHYSICAL REVIEW LETTERS, cilt.87, sa.26, 2001 (SCI İndekslerine Giren Dergi)
- XXXVI. **Bismuth nano-Hall probes fabricated by focused ion beam milling for direct magnetic imaging by room temperature scanning Hall probe microscopy**
SANDHU A., MASUDA H., KUROSAWA K., Oral A., BENDİNG S.
ELECTRONICS LETTERS, cilt.37, sa.22, ss.1335-1336, 2001 (SCI İndekslerine Giren Dergi)
- XXXVII. **Quantitative atom-resolved force gradient imaging using noncontact atomic force microscopy**
Oral A., GRIMBLE R., ÖZER H. Ö. , HOFFMANN P., PETHICA J.
APPLIED PHYSICS LETTERS, cilt.79, sa.12, ss.1915-1917, 2001 (SCI İndekslerine Giren Dergi)
- XXXVIII. **Room temperature sub-micron magnetic imaging by scanning Hall probe microscopy**
SANDHU A., MASUDA H., Oral A., BENDİNG S. J.
JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS, cilt.40, ss.4321-4324, 2001 (SCI İndekslerine Giren Dergi)
- XXXIX. **Direct magnetic imaging of ferromagnetic domain structures by room temperature scanning hall probe microscopy using a bismuth micro-hall probe**
SANDHU A., MASUDA H., Oral A., BENDİNG S. J.
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- XL. **Direct measurement of interatomic force gradients using an ultra-low-amplitude atomic force microscope**
HOFFMANN P. M. , Oral A., GRIMBLE R. A. , ÖZER H. Ö. , JEFFERY S., PETHICA J. B.
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- XLI. **Manipulation of atoms across a surface at room temperature**
FISHLOCK T. W. , Oral A., EGDELL R. G. , PETHICA J. B.
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- XLII. **Quantitative electrostatic force measurement in AFM**
JEFFERY S., Oral A., Pethica J. B.
Applied Surface Science, cilt.157, sa.4, ss.280-284, 2000 (SCI İndekslerine Giren Dergi)
- XLIII. **Interaction of bromine with Ni(110) studied by scanning tunnelling microscopy**
Fishlock T., Pethica J., Oral A., Egdell R., Jones F.
Surface Science, cilt.426, sa.2, ss.212-224, 1999 (SCI İndekslerine Giren Dergi)
- XLIV. **Direct observation of melting of the vortex solid in Bi₂Sr₂CaCu₂O₈+delta single crystals**
Oral A., BARNARD J. C. , BENDİNG S. J. , KAYA I. I. , OOI S., TAMEGAİ T., HENİNİ M.
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- XLV. **Hall effect in a highly inhomogeneous magnetic field distribution**
BENDİNG S. J. , Oral A.
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- XLVI. **Microscopic measurement of penetration depth in YBa₂Cu₃O₇-delta thin films by scanning Hall probe microscopy**
Oral A., BENDİNG S., HUMPHREYS R., HENİNİ M.
SUPERCONDUCTOR SCIENCE & TECHNOLOGY, cilt.10, sa.1, ss.17-20, 1997 (SCI İndekslerine Giren Dergi)
- XLVII. **Vortex imaging in superconducting films by Scanning Hall Probe Microscopy**
Oral A., BENDİNG S. J. , HUMPHREYS R. G. , HENİNİ M.
JOURNAL OF LOW TEMPERATURE PHYSICS, cilt.105, ss.1135-1140, 1996 (SCI İndekslerine Giren Dergi)
- XLVIII. **Real-time scanning hall probe microscopy**
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- XLIX. **Initial stages of SiGe epitaxy on Si(001) studied by scanning tunneling microscopy**
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Surface Science, cilt.323, sa.3, ss.295-303, 1995 (SCI İndekslerine Giren Dergi)

L. A NOVEL FORCE MICROSCOPE AND POINT-CONTACT PROBE

JARVIS S. P. , ORAL A., WEIHS T. P. , PETHICA J. B.

REVIEW OF SCIENTIFIC INSTRUMENTS, cilt.64, sa.12, ss.3515-3520, 1993 (SCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **Multi-layered Conductive Films via Recursive Transfer-Print of Graphene onto Polymeric Foil**
Inkaya U., ÇELİK K., ORAL A.
Graphene Conference 2018, Dresden, Almanya, 26 - 29 Haziran 2018
- II. **High-density array of 10 nm ferromagnetic nano-islands patterned non-destructively by phase transformation with low-energy proton irradiation**
DUTTA T., PATHAK S., ASBAHI M., ÇELİK K., LEE J. M. , YANG P., SAIFULLAH M. S. M. , ORAL A., BHATIA C., CHA J., et al.
The 4th International Symposium on Advanced Magnetic Materials and Applications (ISAMMA 2017) 10-13 December 2017 – Phu Quoc, Vietnam, 10 - 13 Aralık 2017
- III. **Development of High Speed AFM Operating at 1,000 Lines/s amp 15x15x3µm XYZ Scan Range**
ÇELİK Ü., KEHRİBAR İ., UYSALLI Y., ÇELİK K., ÖZER H. Ö. , ORAL A.
2017 MRS Fall Meeting, Boston, Amerika Birleşik Devletleri, 26 Kasım - 01 Aralık 2017
- IV. **Characterization of Multilayered Conductive Films Produced by Multiple Transfer Printing Graphene onto Ultra-Thin PVC Foil**
Inkaya U., ÇELİK K., ORAL A.
MRS 2017 Fall Meeting, Boston, Amerika Birleşik Devletleri, 30 Kasım 2017
- V. **Development of High Speed AFM operating at 1,000 Lines/s 15x15x3µm XYZ Scan Area**
ÇELİK U., KEHRİBAR İ., ÇELİK K., ÖZER H. Ö. , ORAL A.
ISSS-8 The 8Th International Symposium on Surface Science, 22 - 26 Ekim 2017
- VI. **Ups and Downs of Running a Spinoff company for 19 years!**
ORAL A.
Bridging Science and Business working group of the Marie Curie Alumni Association (MCAA), 11 - 12 Eylül 2017
- VII. **Flexible Multilayer Graphene Hall Sensors on Ultra-Thin PVC Foil**
ORAL A.
Graphene Malaysia 2017, 10 - 11 Temmuz 2017
- VIII. **Development of SAMPLE Scanning High Speed AFM operating at 1,000 Lines/s 15µm x 15µm x 3µm**
ÇELİK Ü., UYSALLI Y., KEHRİBAR İ., ÇELİK K., ÖZER H. Ö. , ORAL A.
The 19th International Scanning Probe Microscopy Conference KYOTO JAPAN, 17 - 19 Mayıs 2017
- IX. **Why Graphene growth on Dielectrics is fascinating**
KARAMAT S., ORAL A.
SurfCoat Korea 2017 International Conference, 29-31 March (2017), 29 - 31 Mart 2017
- X. **Status and trends in high performance magnetic imaging using Scanning Probe Microscopy SPM**
ORAL A.
THE 1st UKM-ISESCO-COMSATS INTERNATIONAL WORKSHOP ON NANOTECHNOLOGY FOR YOUNG SCIENTISTS (IWYS 2016), 28 - 30 Kasım 2016
- XI. **High performance magnetic imaging using Scanning Probe Microscopy SPM at low temperatures 20mK 300K**
ORAL A.
11th International Conference on New Theories, Discoveries, Applications of Superconductors and Related Materials, 11 - 16 Eylül 2016
- XII. **Surface and Compositional Study of Graphene grown on Lithium Niobate LiNbO3 substrates by Chemical Vapour Deposition**
KARAMAT S., ÇELİK U., ORAL A.
American Physical Society, APS, March Meeting 2016 Baltimore, ABD, 14 - 18 Mart 2016

- XIII. **Development of tip Scanning High Speed AFM operating at 1 000 Lines s 15um**
ÇELİK U., KEHRİBAR I., ORAL A.
American Physical Society, APS, March Meeting 2016 Baltimore, ABD, 14 - 18 Mart 2016
- XIV. **Structural and Compositional Study of Graphene grown on SrTiO3 by Chemical Vapour Deposition**
KARAMAT S., ÇELİK U., ORAL A.
American Physical Society, APS, March Meeting 2016 Baltimore, ABD, 14 - 18 Mart 2016
- XV. **Radiation pressure excitation of Low Temperature Atomic Force Magnetic Force Microscope LT AFM MFM in 4 300K Temperature Range**
KARCI Ö., ÇELİK Ü., UYSALLI Y., ÖZER H. Ö., ORAL A.
16th European Conference on Applications of Surface and Interface Analysis, ECASIA'15, Granada, İspanya, 28 Eylül - 01 Ekim 2015
- XVI. **Non contact Atomic Force Microscope nAFM Operation in UHV Using Radiation Pressure Excitation of Cantilever**
UYSALLI Y., ÇELİK Ü., KARCI Ö., ÖZER H. Ö., ORAL A.
The NC-AFM 2015, 18th International Conference on non-contact Atomic Force Microscopy (NC-AFM), Cassis, Fransa, 7-11 Eylül 2015, CASSIS, Fransa, 7 - 11 Eylül 2015
- XVII. **1fm Hz Noise Level Low Temperature Atomic Force Magnetic Force Microscope LT AFM MFM in 20mK 300K Temperature Range**
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