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Education Information

Doctorate, Turkey 1979 - 1986

Postgraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1977 - 1979

Undergraduate, Istanbul Technical University, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, Turkey 1972 - 1976

Foreign Languages

English

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 1996 - Continues

Associate Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 1990 - 1996

Assistant Professor, Istanbul Technical University, Kimya-Metalurji, Metalurji Ve Malzeme Mühendisliği, 1987 - 1990

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2001 - 2004

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Characteristics of the hierarchical porous TiO₂ layer synthesized on Ti via plasma electrolytic oxidation: Role of the applied voltage
Ahounbar E., Khoei S. M. M., Urgen M. K., Shokouhimehr M.
CERAMICS INTERNATIONAL, vol.47, no.6, pp.8279-8289, 2021 (SCI-Expanded)

- II. Contribution of polyaniline coating to the stability and performance of nickel hydroxide based electroactive materials**
 Karaman B., Mohamad N., Avci B., Ürgen M. K.
 INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.14, pp.11691-11701, 2020 (SCI-Expanded)
- III. On the Erosive Wear of Carbon Fiber-Reinforced Epoxy Composite in the Olive Oil Extraction Process**
 Sakka M. M., Bahri A., Kacar E., Elleuch K., Ürgen M. K.
 JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol.142, no.7, 2020 (SCI-Expanded)
- IV. Influence of tantalum pentoxide secondary phase on surface features and mechanical properties of hydroxyapatite coating on NiTi alloy produced by electrophoretic deposition**
 Horandghadim N., Khalil-Allafi J., Ürgen M. K.
 SURFACE & COATINGS TECHNOLOGY, vol.386, 2020 (SCI-Expanded)
- V. Effect of high-voltage pulse bias on the stress and morphology of CA-PVD TiN coatings**
 Taghavi Pourian Azar G., Ürgen M. K.
 SURFACE ENGINEERING, vol.36, no.1, pp.13-21, 2020 (SCI-Expanded)
- VI. Effect of Ta₂O₅ content on the osseointegration and cytotoxicity behaviors in hydroxyapatite-Ta₂O₅ coatings applied by EPD on superelastic NiTi alloys**
 Horandghadim N., Khalil-Allafi J., Urgen M. K.
 MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.102, pp.683-695, 2019 (SCI-Expanded)
- VII. Biomechanical compatibility and electrochemical stability of HA/Ta₂O₅ nanocomposite coating produced by electrophoretic deposition on superelastic NiTi alloy**
 Horandghadim N., Khalil-Allafi J., Kaçar E., Urgen M. K.
 JOURNAL OF ALLOYS AND COMPOUNDS, vol.799, pp.193-204, 2019 (SCI-Expanded)
- VIII. Aluminising of steel with a cathodic arc plasma based method**
 Celikel T., Kacar E., Urgen M. K.
 TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol.97, no.3, pp.140-145, 2019 (SCI-Expanded)
- IX. Freestanding SnO₂ films produced with anodic polarization in acidic media containing colloidal tin hydroxides**
 Akyil C., Akdas G., Afsin P., Urgen M. K.
 MATERIALS CHEMISTRY AND PHYSICS, vol.221, pp.263-271, 2019 (SCI-Expanded)
- X. Self-assembling antimicrobial peptides on nanotubular titanium surfaces coated with calcium phosphate for local therapy**
 Yazici H., Habib G., Boone K., Urgen M. K., Utku F. S., Tamerler C.
 MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.94, pp.333-343, 2019 (SCI-Expanded)
- XI. The role of superimposing pulse bias voltage on DC bias on the macroparticle attachment and structure of TiAlN coatings produced with CA-PVD**
 Azar G. T. P., Er D., Urgen M. K.
 SURFACE & COATINGS TECHNOLOGY, vol.350, pp.1050-1057, 2018 (SCI-Expanded)
- XII. The corrosion protection ability of TiAlN coatings produced with CA-PVD under superimposed pulse bias**
 Er D., Azar G. T. P., Kazmanli K., Urgen M. K.
 SURFACE & COATINGS TECHNOLOGY, vol.346, pp.1-8, 2018 (SCI-Expanded)
- XIII. Tribological Study of Fe-W-P Electrodeposited Coating on 316 L Stainless Steel**
 ZOUCH F., ANTAR Z., BAHRI A., ELLEUCH K., Ürgen M. K.
 JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol.140, no.1, 2018 (SCI-Expanded)
- XIV. Magnesium doping on TiN coatings affects mesenchymal stem cell differentiation and proliferation positively in a dose-dependent manner**
 ÖNDER S., Calikoglu-Koyuncu A. C., Kazmanli K., Urgen M. K., Kök F. N., Torun-Kose G.
 BIO-MEDICAL MATERIALS AND ENGINEERING, vol.29, no.4, pp.427-438, 2018 (SCI-Expanded)

- XV. **Experimental and modeling study on the role of Ar addition to the working gas on the development of intrinsic stress in TiN coatings produced by filtered vacuum-arc plasma**
 VASYLIEV V. V., KALINICHENKO A. I., RESHETNYAK E. N., AZAR G. T. P., Ürgen M. K., STREL'NITSKIJ V. E.
THIN SOLID FILMS, vol.642, pp.207-213, 2017 (SCI-Expanded)
- XVI. **Effect of Magnesium and Osteoblast Cell Presence on Hydroxyapatite Formation on (Ti,Mg)N Thin Film Coatings**
 Onder S., Calikoglu-Koyuncu A. C., Kose G. T., Kazmanli K., Kök F. N., Urgen M. K.
JOM, vol.69, pp.1195-1205, 2017 (SCI-Expanded)
- XVII. **Effect of process parameters on coating composition of cathodic-plasma-electrolysis-treated copper**
 Habibi A., Khoie S. M. M., Mahboubi F., Urgen M. K.
BULLETIN OF MATERIALS SCIENCE, vol.40, no.2, pp.355-365, 2017 (SCI-Expanded)
- XVIII. **Raman spectroscopy of thin DLC film deposited by plasma electrolysis process**
 Habibi A., KHOIE S. M. M., MAHBOUBI F., Ürgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.309, pp.945-950, 2017 (SCI-Expanded)
- XIX. **Fast synthesis of turbostratic carbon thin coating by cathodic plasma electrolysis**
 Habibi A., Khoie S. M. M., Mahboubi F., Urgen M. K.
THIN SOLID FILMS, vol.621, pp.253-258, 2017 (SCI-Expanded)
- XX. **Wear protection potential of TiN coatings for 304 stainless steels used in rotating parts during olive oil extraction**
 Bahri A., Kaçar E., AKKAYA S. S., Elleuch K., Ürgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.304, pp.560-566, 2016 (SCI-Expanded)
- XXI. **On the erosive wear of 304 L stainless steel caused by olive seed particles impact: Modeling and experiments**
 Bahri A., GUERMAZI N., ELLEUCH K., Urgen M. K.
TRIBOLOGY INTERNATIONAL, vol.102, pp.608-619, 2016 (SCI-Expanded)
- XXII. **Role of different plasma gases on the surface chemistry and wettability of RF plasma treated stainless steel**
 Sonmez T., JADIDI M. F., KAZMANLI K., Birer O., Urgen M. K.
VACUUM, vol.129, pp.63-73, 2016 (SCI-Expanded)
- XXIII. **Orientation dependent tribological behavior of TiN coatings**
 Akkaya S., YILDIZ B., Ürgen M. K.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.28, no.13, 2016 (SCI-Expanded)
- XXIV. **Effects of DC Stray Current on Concrete Permeability**
 Aghajani A., Ürgen M. K., BERTOLINI L.
JOURNAL OF MATERIALS IN CIVIL ENGINEERING, vol.28, no.4, 2016 (SCI-Expanded)
- XXV. **Behavior of mammalian cells on magnesium substituted bare and hydroxyapatite deposited (Ti, Mg) N coatings**
 Onder S., Calikoglu-Koyuncu A. C., Kazmanli K., Urgen M. K., Kose G. T., Kok F. N.
NEW BIOTECHNOLOGY, vol.32, pp.747-755, 2015 (SCI-Expanded)
- XXVI. **Tribological performance of TiN coatings deposited on 304 L stainless steel used for olive-oil extraction**
 Bahri A., GUERMAZI N., ELLEUCH K., Urgen M. K.
WEAR, vol.342, pp.77-84, 2015 (SCI-Expanded)
- XXVII. **Role of aluminum doping on phase transformations in nanoporous titania anodic oxides**
 Bayata F., Ürgen M. K.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.646, pp.719-726, 2015 (SCI-Expanded)
- XXVIII. **Electrochemically designed interfaces: Hydroxyapatite coated macro-mesoporous titania surfaces**
 Utku F. S., SECKIN E., Göller G., Tamerler C., Ürgen M. K.
APPLIED SURFACE SCIENCE, vol.350, pp.62-68, 2015 (SCI-Expanded)
- XXIX. **Corrosion behaviour of magnesium AZ31 sheet produced by twin roll casting**
 Oktay G., Ürgen M. K.

- CORROSION ENGINEERING SCIENCE AND TECHNOLOGY, vol.50, no.5, pp.380-389, 2015 (SCI-Expanded)
- XXX. Improvement in electrical and photovoltaic properties of a-Si/c-Si heterojunction with slanted nano-columnar amorphous silicon thin films for photovoltaic applications
Tatar B., DEMIROGLU D., KAZMANLI K., Ürgen M. K.
CURRENT APPLIED PHYSICS, vol.15, no.4, pp.511-519, 2015 (SCI-Expanded)
- XXXI. Oxidation behavior of electroless Ni-P, Ni-B and Ni-W-B coatings deposited on steel substrates
Eraslan S., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.265, pp.46-52, 2015 (SCI-Expanded)
- XXXII. XPS investigations of tribolayers formed on TiN and (Ti,Re)N coatings
Oktay S., KAHRAMAN Z., Urgen M. K., KAZMANLI K.
APPLIED SURFACE SCIENCE, vol.328, pp.255-261, 2015 (SCI-Expanded)
- XXXIII. Mechanical and frictional behaviour of nano-porous anodised aluminium
Tsyntsaru N., KAVAS B., SORT J., Ürgen M. K., CELIS J. -.
MATERIALS CHEMISTRY AND PHYSICS, vol.148, no.3, pp.887-895, 2014 (SCI-Expanded)
- XXXIV. Carbonated hydroxyapatite deposition at physiological temperature on ordered titanium oxide nanotubes using pulsed electrochemistry
Utku F. S., SECKIN E., Göller G., Tamerler C., Ürgen M. K.
CERAMICS INTERNATIONAL, vol.40, no.10, pp.15479-15487, 2014 (SCI-Expanded)
- XXXV. Hydrogen gas sensing properties of nanoporous Al-doped titania
Bayata F., SARUHAN-BRINGS B., Ürgen M. K.
SENSORS AND ACTUATORS B-CHEMICAL, vol.204, pp.109-118, 2014 (SCI-Expanded)
- XXXVI. Effects of Highly Polluted Atmospheres on Power Distribution Systems
Aghajani A., Urgen M. K.
MATERIALS PERFORMANCE, vol.53, no.12, pp.64-66, 2014 (SCI-Expanded)
- XXXVII. Effect of sodium sulfate on the characteristics and corrosion behavior of high phosphorus Ni-P electroless coatings
Tabatabaei F., RAEISSI K., SAATCHI A., Ürgen M. K.
MATERIALS AND CORROSION-WERKSTOFFE UND KORROSION, vol.65, no.9, pp.926-930, 2014 (SCI-Expanded)
- XXXVIII. Investigation of structural and electrical properties of p-CuPc/c-Si and p-CuPc/a-Si/c-Si hybrid photodiodes prepared by CSP technique
Tatar B., DEMIROGLU D., Ürgen M. K.
MICROELECTRONIC ENGINEERING, vol.126, pp.184-190, 2014 (SCI-Expanded)
- XXXIX. Osteoblast cell proliferation on magnesium-substituted hydroxyapatite (Mg-HA) coatings
Kök F. N., Onder S., Calikoglu A. C., Kazmanli K., Urgen M. K., KÖSE G.
NEW BIOTECHNOLOGY, vol.31, 2014 (SCI-Expanded)
- XL. Antibacterial Activity of As-Annealed TiO₂ Nanotubes Doped with Ag Nanoparticles against Periodontal Pathogens
Yeniyol S., He Z., Yuksel B., Boylan R. J., Urgen M. K., OZDEMIR T., Ricci J. L.
BIOINORGANIC CHEMISTRY AND APPLICATIONS, 2014 (SCI-Expanded)
- XLI. A Simple Method for the Production of AAO Templates for DC Electrodeposition of Nanostructures
Akinci Z. B., Urgen M. K.
ECS ELECTROCHEMISTRY LETTERS, vol.3, no.10, 2014 (SCI-Expanded)
- XLII. Structure and properties of TiN coatings produced with PIII&D technique using high efficiency rectilinear filter cathodic arc plasma
Akkaya S. S., VASYLIEV V. V., RESHETNYAK E. N., KAZMANLI K., Solak N., STREL'NITSKIJ V. E., Ürgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.236, pp.332-340, 2013 (SCI-Expanded)
- XLIII. Protecting Concrete Power Poles from Stray Alternating Current
Aghajani A., Golozar M. A., Saatchi A., Raeissi K., Urgen M. K., Shabani S., Bertolini L.
MATERIALS PERFORMANCE, vol.52, no.10, pp.30-32, 2013 (SCI-Expanded)
- XLIV. Stray Alternating Current and Environmental Effects on Concrete Power Poles
Aghajani A., Golozar M. A., Saatchi A., Raeissi K., Urgen M. K., Shabani S.

- MATERIALS PERFORMANCE, vol.52, no.8, pp.30-34, 2013 (SCI-Expanded)
- XLV. High temperature friction and wear behaviour of Ni-P-Ag-Al₂O₃ hybrid nanocomposite coating**
 Alirezaei S., Monirvaghefi S. M., Saatchi A., Urgen M. K., Motallebzadeh A.
 TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol.91, no.4, pp.207-213, 2013 (SCI-Expanded)
- XLVI. Regular growth combined with lateral etching in diamond deposited over silicon substrate by using hot filament chemical vapor deposition technique**
 Ali M., Ürgen M. K.
 APPLIED SURFACE SCIENCE, vol.273, pp.730-734, 2013 (SCI-Expanded)
- XLVII. Stray Alternating Current Problems in Concrete Power Poles**
 Aghajani A., Golozar M. A., Saatchi A., Raeissi K., Urgen M. K., Shabani S.
 MATERIALS PERFORMANCE, vol.52, no.5, pp.36-39, 2013 (SCI-Expanded)
- XLVIII. High temperature tribology of nanocrystalline Ni-P-Ag coating**
 Alirezaei S., MONIRVAGHEFI S. M., SAATCHI A., Ürgen M. K., MOTALLEBZADEH A.
 SURFACE ENGINEERING, vol.29, no.4, pp.306-311, 2013 (SCI-Expanded)
- XLIX. Surface morphology, nano-indentation and TEM analysis of tantalum carbide-graphite composite film synthesized by hot-filament chemical vapor deposition**
 Ali M., Ürgen M. K., ATTA M. A., Kawashima A., Nishijima M.
 MATERIALS CHEMISTRY AND PHYSICS, vol.138, pp.944-950, 2013 (SCI-Expanded)
- L. Addressable self-immobilization of lactate dehydrogenase across multiple length scales**
 Cetinel S., CALISKAN H. B., YUCESOY D. T., DONATAN A. S., YÜÇA E., Urgen M. K., KARAGULER N. G., TAMERLER C.
 BIOTECHNOLOGY JOURNAL, vol.8, no.2, pp.262-272, 2013 (SCI-Expanded)
- LI. Growth of in situ multilayer diamond films by varying substrate-filament distance in hot-filament chemical vapor deposition**
 Ali M., Urgen M. K.
 JOURNAL OF MATERIALS RESEARCH, vol.27, no.24, pp.3123-3129, 2012 (SCI-Expanded)
- LII. Novel investigation on nanostructure Ni-P-Ag composite coatings**
 Alirezaei S., VAGHEFI S. M. M., Ürgen M. K., SAATCHI A., KAZMANLI K.
 APPLIED SURFACE SCIENCE, vol.261, pp.155-158, 2012 (SCI-Expanded)
- LIII. High purity diamond films synthesised by chemical vapour deposition**
 Ali M. K., UERGEN M., Kawashima A.
 SURFACE ENGINEERING, vol.28, no.10, pp.791-795, 2012 (SCI-Expanded)
- LIV. Effect of solid surface charge on the binding behaviour of a metal-binding peptide**
 Donatan S., Sarikaya M., Tamerler C., Urgen M. K.
 JOURNAL OF THE ROYAL SOCIETY INTERFACE, vol.9, no.75, pp.2688-2695, 2012 (SCI-Expanded)
- LV. Improvement of gas sensing performance of TiO₂ towards NO₂ by nano-tubular structuring**
 Goenuellue Y., RODRIGUEZ G. C. M., SARUHAN B., Urgen M. K.
 SENSORS AND ACTUATORS B-CHEMICAL, vol.169, pp.151-160, 2012 (SCI-Expanded)
- LVI. Diamond films grown without seeding treatment and bias by hot-filament CVD system**
 Ali M., Urgen M. K.
 SOLID STATE SCIENCES, vol.14, no.4, pp.540-544, 2012 (SCI-Expanded)
- LVII. Tantalum carbide films synthesized by hot-filament chemical vapor deposition technique**
 Ali M., Ürgen M. K., ATTA M. A.
 SURFACE & COATINGS TECHNOLOGY, vol.206, pp.2833-2838, 2012 (SCI-Expanded)
- LVIII. Effect of surface treatment on hot-filament chemical vapour deposition grown diamond films**
 Ali M., Ürgen M. K., ATTA M. A.
 JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.45, no.4, 2012 (SCI-Expanded)
- LIX. A novel free-standing nanowire substrate with surface enhanced Raman scattering (SERS) activity**
 Bayata F., AKINCI Z. B., DONATAN A. S., Urgen M. K.
 MATERIALS LETTERS, vol.67, no.1, pp.387-389, 2012 (SCI-Expanded)
- LX. Simultaneous growth of diamond and nanostructured graphite thin films by hot-filament chemical vapor deposition**

- Ali M., Ürgen M. K.
SOLID STATE SCIENCES, vol.14, no.1, pp.150-154, 2012 (SCI-Expanded)
- LXI. **Generation of a Surface Pattern Having Conical Surface Features by Anodic Polarization of Aluminum**
Urgen M. K., Keleş Ö., POLAT B. D., BAYATA F.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.159, no.9, 2012 (SCI-Expanded)
- LXII. **Tantalum carbide-graphite composite film synthesized by hot-filament chemical vapor deposition**
Ali M., Urgen M. K.
PURE AND APPLIED CHEMISTRY, vol.84, no.12, pp.2499-2506, 2012 (SCI-Expanded)
- LXIII. **Effect of cathodic arc plasma treatment on the properties of WC-Co based hard metals**
Akkaya S. S., SIRELI E., ALKAN B., Kazmanlı M. K., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.206, no.7, pp.1759-1764, 2011 (SCI-Expanded)
- LXIV. **Production of free standing Cu-Al intermetallics by cathodic arc plasma treatment**
Arpat E., Urgen M. K.
INTERMETALLICS, vol.19, no.12, pp.1817-1822, 2011 (SCI-Expanded)
- LXV. **High-Temperature Sliding Wear Testing of Cathodic Arc Physical Vapor Deposition AlTiN- and AlTiON-Coated Hot Work Tool Steels**
Birol Y., ISLER D., Urgen M. K.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, no.11, pp.3316-3322, 2011 (SCI-Expanded)
- LXVI. **Surface morphology, growth rate and quality of diamond films synthesized in hot filament CVD system under various methane concentrations**
Ali M., Ürgen M. K.
APPLIED SURFACE SCIENCE, vol.257, no.20, pp.8420-8426, 2011 (SCI-Expanded)
- LXVII. **Transport and storage properties of CrSi₂/Si junctions made using the CAPVD technique**
Menda U. D., ÖZDEMİR O., Tatar B., Urgen M. K., Kutlu K.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.13, no.4, pp.257-266, 2010 (SCI-Expanded)
- LXVIII. **Modification of copper surfaces with cathodic arc aluminum plasma**
Corlu B., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.205, no.2, pp.540-544, 2010 (SCI-Expanded)
- LXIX. **Wear Characteristics of NiTi/Al6061 Short Fiber Metal Matrix Composite Reinforced With SiC Particulates**
Akalin Ö., EZİRMİK K. V., Urgen M. K., Newaz G. M.
JOURNAL OF TRIBOLOGY-TRANSACTIONS OF THE ASME, vol.132, no.4, 2010 (SCI-Expanded)
- LXX. **Electrochemical bonding of titanium for improved mechanical properties**
Kartal G., Timur Ş., Ürgen M. K., Erdemir A.
SURFACE & COATINGS TECHNOLOGY, vol.204, no.23, pp.3935-3939, 2010 (SCI-Expanded)
- LXXI. **PVD COATED HOT WORK TOOL STEELS FOR TOOLING APPLICATIONS IN SEMI-SOLID PROCESSING OF STEELS**
Isler D., Birol Y., Urgen M. K.
INTERNATIONAL JOURNAL OF MATERIAL FORMING, vol.3, pp.747-750, 2010 (SCI-Expanded)
- LXXII. **Excess Capacitance Due to Minority Carrier Injection in CrSi₂/p-Type Crystalline Si Isotype Junction**
ÖZDEMİR O., Yilmazer U. D., TATAR B., Urgen M. K., Kutlu K.
JAPANESE JOURNAL OF APPLIED PHYSICS, vol.49, no.9, 2010 (SCI-Expanded)
- LXXIII. **Surface modification of iron containing aluminum alloys by treatment with copper plasma produced with cathodic arc**
Corlu B., UERGEN M.
SURFACE & COATINGS TECHNOLOGY, vol.204, pp.872-877, 2009 (SCI-Expanded)
- LXXIV. **The effect of oxygen content on the temperature dependent tribological behavior of Cr-O-N coatings**
Ürgen M. K., EZIRMIK V., SENEL E., KAHRAMAN Z., KAZMANLI K.
SURFACE & COATINGS TECHNOLOGY, vol.203, no.16, pp.2272-2277, 2009 (SCI-Expanded)

- LXXV. **Determination of sodium migration in sol-gel deposited titania films on soda-lime glass with r.f. glow discharge optical emission spectroscopy**
Yuksel B., SAM E. D., AKTAS O. C., Ürgen M. K., CAKIR A. F.
APPLIED SURFACE SCIENCE, vol.255, no.7, pp.4001-4004, 2009 (SCI-Expanded)
- LXXVI. **Physical elution in phage display selection of inorganic-binding peptides**
Donatan S., YAZICI H., BERMEK H., Sarikaya M., TAMERLER C., Urgen M. K.
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS, vol.29, no.1, pp.14-19, 2009 (SCI-Expanded)
- LXXVII. **Synthesis and optical properties of CeO₂ nanocrystalline films grown by pulsed electron beam deposition**
Tatar B., SAM E. D., Kutlu K., UERGEN M.
JOURNAL OF MATERIALS SCIENCE, vol.43, no.15, pp.5102-5108, 2008 (SCI-Expanded)
- LXXVIII. **A method for polyaniline coatings on solid polystyrene surfaces and electroless copper deposition**
Girginer B., KARAGOZ B., Urgen M. K., BICAK N.
SURFACE & COATINGS TECHNOLOGY, vol.202, no.17, pp.4176-4182, 2008 (SCI-Expanded)
- LXXIX. **Comparative tribological behaviors of TiN-, CrN- and MoN-Cu nanocomposite coatings**
Oeztuerk A., EZIRMIK K. V., KAZMANLI K., UERGEN M., ERYILMAZ O. L., ERDEMIR A.
TRIBOLOGY INTERNATIONAL, vol.41, no.1, pp.49-59, 2008 (SCI-Expanded)
- LXXX. **Effect of copper addition on the temperature dependent reciprocating wear behaviour of CrN coatings**
Ezirmik V., SENEL E., KAZMANLI K., ERDEMIR A., Ürgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.202, pp.866-870, 2007 (SCI-Expanded)
- LXXXI. **Synthesis of beta-FeSi₂/Si heterojunctions for photovoltaic applications by unbalanced magnetron sputtering**
Tatar B., KUTU K., UERGEN M.
THIN SOLID FILMS, vol.516, no.1, pp.13-16, 2007 (SCI-Expanded)
- LXXXII. **Surface characterization of beta-FeSi₂/Si heterojunctions prepared by magnetron sputtering**
Tatar B., Kutlu K., Uergen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.201, pp.8373-8376, 2007 (SCI-Expanded)
- LXXXIII. **Characterization of nano-composite TiN-Sb coating produced with hybrid physical vapor deposition system**
Kazmanli K., DARYAL B., Urgen M. K.
THIN SOLID FILMS, vol.515, pp.3675-3680, 2007 (SCI-Expanded)
- LXXXIV. **In vitro bioactivity characterization of machinable glass ceramics containing 85wt Na mica and 15wt fluorapatite**
GÖLLER G., AKIN KARADAYI İ., kahraman a., Demirkesen E., ÜRGЕН M. K.
BIOCERAMICS 18, vol.0, 2006 (SCI-Expanded)
- LXXXV. **Measurement of residual stresses by X-ray diffraction techniques in MoN and Mo₂N coatings deposited by arc PVD on high-speed steel substrate**
Sarioglu C., DEMIRLER U., KAZMANLI M. K., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.190, pp.238-243, 2005 (SCI-Expanded)
- LXXXVI. **Comparison of reciprocating wear behaviour of electrolytic hard chrome and arc-PVD CrN coatings**
Bozyazi E., Urgen M. K., CAKIR A.
WEAR, vol.256, pp.832-839, 2004 (SCI-Expanded)
- LXXXVII. **Characterization of Co-based metal oxide films on glass**
Arpat E., Urgen M. K., Kaplan R., Sarac Y.
EURO CERAMICS VIII, PTS 1-3, pp.525-528, 2004 (SCI-Expanded)
- LXXXVIII. **Characterization of Mo₂N Ag nanocomposite coatings produced by magnetron sputtering**
Tuncay T., Ürgen M. K., AF C.
EURO CERAMICS VIII, PTS 1-3, vol.264268, pp.489-492, 2004 (SCI-Expanded)
- LXXXIX. **Photoactive TiO₂ coatings on metal substrates by cathodic arc deposition technique**

- Bahadir K., Semih O., AF C., Ürgen M. K.
EURO CERAMICS VIII, PTS 1-3, vol.264268, pp.549-552, 2004 (SCI-Expanded)
- XC.** **Self cleaning photoactive TiO₂ coatings on SLS glasses by sol gel dipcoating**
Sam E., Ürgen M. K., FZ T.
Key, vol.264268, pp.407-410, 2004 (SCI-Expanded)
- XCI.** **Characterization of Mo₂N/Ag nanocomposite coatings produced by magnetron sputtering**
Turutoglu T., Urgen M. K., Cakir A., Ozturk A.
EURO CERAMICS VIII, PTS 1-3, pp.489-492, 2004 (SCI-Expanded)
- XCII.** **Self cleaning photoactive TiO₂ coatings on SLS glasses by sol-gel dip coating**
Sam E., Urgen M. K., Tepehan F., Gunay V.
EURO CERAMICS VIII, PTS 1-3, pp.407-410, 2004 (SCI-Expanded)
- XCIII.** **Photocatalytic bactericidal effect of TiO₂ thin films produced by cathodic arc deposition method**
Kepenek B., Seker U., Cakir A., Urgen M. K., Tamerler C.
BIOCERAMICS, VOL 16, pp.463-466, 2004 (SCI-Expanded)
- XCIV.** **Oxidation behavior of molybdenum nitride coatings**
Solak N., USTEL F., Urgen M. K., AYDIN S., CAKIR A.
SURFACE & COATINGS TECHNOLOGY, vol.174, pp.713-719, 2003 (SCI-Expanded)
- XCV.** **Effect of nitrogen pressure, bias voltage and substrate temperature on the phase structure of Mo-N coatings produced by cathodic arc PVD**
Kazmanli M. K., Urgen M. K., CAKIR A.
SURFACE & COATINGS TECHNOLOGY, vol.167, no.1, pp.77-82, 2003 (SCI-Expanded)
- XCVI.** **Corrosion characteristic of plain carbon steel coated with TiN and ZrN under high-flux ion bombardment**
Kelesoglu E., MITTERER C., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.160, no.1, pp.82-86, 2002 (SCI-Expanded)
- XCVII.** **Effect of cathodic polarisation on corrosion fatigue behaviour of ion nitrided AISI 4140 steel**
Genel K., DEMIRKOL M., Urgen M. K.
INTERNATIONAL JOURNAL OF FATIGUE, vol.24, no.5, pp.537-543, 2002 (SCI-Expanded)
- XCVIII.** **Characterization and machining performance of TiN coated M 35 quality cutting tools**
Ahlatci H., Turkuz M., Cimenoglu H., Ürgen M. K., Kayali E.
METALL, vol.56, no.4, pp.204-207, 2002 (SCI-Expanded)
- XCIX.** **Lower temperatures for the preparation of thinner zeolite A coatings**
CETIN T., Tatlier M., Erdem-Senatalar A., DEMIRLER U., Urgen M. K.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.47, no.1, pp.1-14, 2001 (SCI-Expanded)
- C.** **Preparation of zeolite coatings by direct heating of the substrates**
Erdem-Senatalar A., TATLIER M., Urgen M. K.
MICROPOROUS AND MESOPOROUS MATERIALS, vol.32, no.3, pp.331-343, 1999 (SCI-Expanded)
- CI.** **Microstructure and properties of nitride and diboride hard coatings deposited under intense mild-energy ion bombardment**
Kelesoglu E., MITTERER C., KAZMANLI M. K., Urgen M. K.
SURFACE & COATINGS TECHNOLOGY, vol.116, pp.133-140, 1999 (SCI-Expanded)
- CII.** **Inhibition of stress corrosion cracking of AISI 304 stainless steel by molybdate ions at elevated temperatures under salt crust**
Cansever N., CAKIR A., Urgen M. K.
CORROSION SCIENCE, vol.41, no.7, pp.1289-1303, 1999 (SCI-Expanded)
- CIII.** **Stripping of CrN from CrN-coated high-speed steels**
Sen Y., Urgen M. K., KAZMANLI K., CAKIR A.
SURFACE & COATINGS TECHNOLOGY, vol.113, pp.31-35, 1999 (SCI-Expanded)
- CIV.** **Optimization of Arc PVD Tin Coating Process Parameters by Taguchi Techniques**
Keleş Ö., TAPTIK İ. Y., ERYILMAZ L., ÜRGÜN M. K., ÇAKIR A. F.
QUALITY ENGINEERING, vol.12, no.1, pp.29-36, 1999 (SCI-Expanded)

- CV. **The effect of molybdate ions on AC sulphuric acid anodized 6063 aluminium alloys**
 Sertcelik F., Cakir A., Urgen M. K., Ross D., Gabe D.
 TRANSACTIONS OF THE INSTITUTE OF METAL FINISHING, vol.76, pp.179-182, 1998 (SCI-Expanded)
- CVI. **Identification of cracks generated by indentation experiments in hard-coating systems**
 Kazmanli M. K., ROTHER B., Urgen M. K., MITTERER C.
 SURFACE & COATINGS TECHNOLOGY, vol.107, no.1, pp.65-75, 1998 (SCI-Expanded)
- CVII. **The effect of the sputter cleaning of steel substrates with neutral molecule source on the adhesion of TiN films**
 Eryilmaz O., Urgen M. K., CAKIR A., KAZMANLI M. K., KAHRAMAN U.
 SURFACE & COATINGS TECHNOLOGY, vol.97, pp.488-491, 1997 (SCI-Expanded)
- CVIII. **The effect of heating on corrosion behavior of TiN- and CrN-coated steels**
 Urgen M. K., CAKIR A.
 SURFACE & COATINGS TECHNOLOGY, vol.96, pp.236-244, 1997 (SCI-Expanded)
- CIX. **Characterization of molybdenum nitride coatings produced by arc-PVD technique**
 Urgen M. K., ERYILMAZ O., CAKIR A., KAYALI E., NILUFER B., ISIK Y.
 SURFACE & COATINGS TECHNOLOGY, pp.501-506, 1997 (SCI-Expanded)
- CX. **New accelerated test for studying the susceptibility of stainless steels to chloride stress corrosion cracking under salt crust**
 Cansever N., CAKIR A., Urgen M. K.
 CORROSION SCIENCE, vol.38, no.11, pp.2043-2048, 1996 (SCI-Expanded)
- CXI. **The effect of heat treatment on corrosion behavior of laser surface melted 304L stainless steel**
 Akgun O., Urgen M. K., CAKIR A.
 MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.203, pp.324-331, 1995 (SCI-Expanded)
- CXII. **CORROSION OF ZIRCONIUM BORIDE AND ZIRCONIUM BORON-NITRIDE COATED STEELS**
 URGEN M. K., CAKIR A., ERYILMAZ O., MITTERER C.
 SURFACE & COATINGS TECHNOLOGY, vol.71, no.1, pp.60-66, 1995 (SCI-Expanded)
- CXIII. **THE EFFECT OF MOLYBDATE IONS ON THE TEMPERATURE-DEPENDENT PITTING POTENTIAL OF AUSTENITIC STAINLESS-STEELS IN NEUTRAL CHLORIDE SOLUTIONS**
 URGEN M. K., CAKIR A.
 CORROSION SCIENCE, vol.32, no.8, pp.841-852, 1991 (SCI-Expanded)
- CXIV. **ESCA MEASUREMENTS OF FILMS ON MOLYBDENUM FORMED IN THE PASSIVE AND TRANSPASSIVE REGION**
 URGEN M. K., STOLZ U., KIRCHHEIM R.
 CORROSION SCIENCE, vol.30, pp.377-391, 1990 (SCI-Expanded)

Articles Published in Other Journals

- I. **Surface Alloying Of Titanium With Nickel By Using Cathodic Arc Based Plasma Treatment**
 SEZGİN N., KAÇAR E., KAZMANLI M. K., ÜRGЕН M. K.
 Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.22, no.5, pp.1181-1189, 2018 (Peer-Reviewed Journal)
- II. **Optimization of the Anodic Layer Morphology on Aluminum in a Mixed Phosphoric Sulfuric Acids Bath Using Taguchi Method**
 KARAHAN B. D., KELEŞ Ö., ÜRGЕН M. K.
 Advanced Science, Engineering and Medicine, vol.7, pp.1-6, 2015 (Peer-Reviewed Journal)
- III. **Enhanced surface hardness by boron diffusion in martensitic stainless steel via Cathodic Reduction and Thermal Diffusion based Boriding CRTD Bor**
 KARTAL ŞİRELİ G., Yelkarası Ç., Özkalafat P., TİMUR S. İ., ÜRGЕН M. K.
 Applied Mechanics and Materials, vol.719, pp.25-28, 2015 (Peer-Reviewed Journal)
- IV. **Effects of electrochemical boriding process parameters on the formation of titanium borides**

- Kılıç A., Kartal G., ÜRGİN M. K., Timur S. İ.
 SURFACE ENGINEERING AND APPLIED ELECTROCHEMISTRY, vol.49, no.2, pp.168-175, 2013 (ESCI)
- V. **Sert Seramik Kaplı Kesici Takım Üretiminde Toplam Kalite Yönetimi Olgusu I**
 KELEŞ Ö., TAPTIK İ. Y., ÜRGİN M. K.
 Yüzey İşlemleri, vol.3, pp.174-181, 1998 (Peer-Reviewed Journal)
- VI. **Sert Seramik Kaplı Kesici Takım Üretiminde Toplam Kalite Yönetimi Olgusu**
 Keleş Ö., Taptik İ. Y., Ürgen M. K.
 Yüzey İşlemleri, vol.3, pp.174-181, 1998 (Peer-Reviewed Journal)
- VII. **Sert Seramik Kaplı Kesici Takım Üretiminde Toplam Kalite Yönetimi Olgusu II**
 KELEŞ Ö., TAPTIK İ. Y., ÜRGİN M. K.
 Yüzey İşlemleri, vol.3, pp.212-218, 1998 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Chemistry of Electroless Plating**
 ÜRGİN M. K.
 in: Electroless Nickel PlatingFundamentals to Applications, F. Delaunois, V. Vitry, L. Bonin, Editor, CRC Press,
 TaykorFrancis Group, Florida, pp.1-26, 2019
- II. **Tribology of Nanostructured and Composite Coatings**
 Erdemir A., Kazmanlı M. K., Eryılmaz O. L., Ürgen M. K., Mehta N., Prorok B.
 in: Handbook of Nanomaterials, Yury Gogotsi, Editor, Crc Press, Boca Raton, Fl, pp.685-711, 2006

Refereed Congress / Symposium Publications in Proceedings

- I. **Determination of Corrosion Initiation Sites on TiN Coated Steels and Their Propagation with Ferroxyl Test and AC Impedance Measurements**
 ER D., KAÇAR E., ÜRGİN M. K.
 Electrochemistry Conference -2019, 30 September - 02 October 2019
- II. **Magnesium Modified TiN Coatings in Hard Tissue Repair**
 ÖNDER S., KAZMANLI M. K., KÖSE G., KÖK F. N., ÜRGİN M. K.
 The 2nd INternational Conference on Bioinformatics, Biotechnology, and Biomedical Engineering, 12 - 13 September 2019
- III. **Self-standing Ni nanowire-based electrodes produced by template-assisted electrodeposition for super-capacitors applications**
 Mohamed N., ÜRGİN M. K.
 4th International Symposium on Materials for Energy Storage, 11 - 13 September 2019
- IV. **Overview: Supercapacitors"**
 ÜRGİN M. K.
 International Summer School on Materials for Energy Storage and Conversion, 7 - 10 September 2019
- V. **Recent Developments in Supercapacitor Material Research**
 ÜRGİN M. K.
 International symposium on materilas for energy storage and conversion, Muğla, Turkey, 11 - 13 September 2019
- VI. **Contribution of polyaniline coating to the stability and performance of nickel hydroxide based supercapacitor electrodes**
 Karaman B., Mohamad N., AVCI B., ÜRGİN M. K.
 4th International Symposium on Materials for Energy Storage, 11 - 13 September 2019
- VII. **Corrosion and corrosion protection properties of a binary Al-Fe alloys produced with a cathodic arc PVD based method**
 ÜRGİN M. K., KAÇAR E., EROĞLU B.

- Past, present and future of Corrosion and light metal surface scince, 24 May 2019
- VIII. **Combination of microfluidics and electrochemical corrosion knowledge for the construction of a differential aeration cell without geometric restrictions**
YELKARASI Ç., Sevim S., Luis Puigmarti J., ÜRGЕН M. K.
4th Workshop e-MINDS COST Action MP1407, Milan, Italy, 13 - 15 February 2019
- IX. **Microstructural Investigation of Nanostructured Er-Doped Yttrium Oxide Powders**
ÜNAL F., EMİL E., GÜRMEN S., KAZMANLI M. K., ÜRGЕН M. K.
IMMC 2018: 19th International Metallurgy Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.614-617
- X. **The Effect of Calcination Temperature, Time and Dopant Rate on Crystallite Size of Doped Y2O3 Nanopowders**
ÜNAL F., KAYA F., GÜRMEN S., KAZMANLI M. K., ÜRGЕН M. K.
IMMC 2018: 19th International Metallurgy Materials Congress, 25 - 27 October 2018, pp.643-646
- XI. **Galvanic coupling behavior between titanium based nitride coatings and steel**
AVCI B., ER D., ÜRGЕН M. K.
15th International Corrosion Symposium (KORSEM'18), Hatay, Turkey, 26 - 28 September 2018
- XII. **A novel method of improved corrosion resistance for steel: artificial superhydrophobic surfaces produced by nickel electroplating, anodic oxidation and stearic acid treatment**
BAŞKARACA C., SÖNMEZ Y., UZ E. D., ASLAN C., AVCI B., ÜRGЕН M. K.
15th International Corrosion Symposium (KORSEM'18), Hatay, Turkey, 26 - 28 August 2018
- XIII. **Production and characterization of electroactive nickel oxides on nickel foam and self-standing nickel nanowires by anodic oxidation in molten salt for supercapacitor electrodes**
AVCI B., ÜRGЕН M. K.
20th International Conference on Advanced Energy Materials, Dublin, Ireland, 13 - 14 August 2018
- XIV. **Investigations of the galvanic coupling behavior between TiN and TiAlN coatings and steel**
AVCI B., ER D., ÜRGЕН M. K.
32rd International Conference on Surface Modification Technologies (SMT'32), San Sebastian, Spain, 27 - 29 June 2018
- XV. **XPS Studies of Eu-Doped Yttrium Oxide Powders**
ÜNAL F., KAZMANLI M. K., ÜRGЕН M. K.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'18), 10 - 12 April 2018
- XVI. **Microstructural Investigation of Eu-Doped Y2O3 Powders**
ÜNAL F., KAZMANLI M. K., ÜRGЕН M. K.
The Internatinonal Conference on Materials Science, Mechanical and Automotive Engineerings and Technology (IMSMATEC'18), 10 - 12 April 2018
- XVII. **Structural and Tribological Properties of Mixed Iron-Titanium Borides Produced with Cathodic Arc Assisted Alloying and Electrochemical Boriding**
KAÇAR E., YELKARASI Ç., TİMUR S. İ., ÜRGЕН M. K.
45th ICMCTF 2018, 23 - 27 April 2018
- XVIII. **Investigation of the Formation of Ni-Ti Intermetallic Layers Produced by Cathodic Arc Electron-metal Ion Treatment**
SEZGİN N., KAÇAR E., KAZMANLI M. K., ÜRGЕН M. K.
45th ICMCTF 2018, 23 - 27 April 2018
- XIX. **Microstructure, hardness and morphological investigation of iron aluminides produced by a CA-PVD based diffusion process**
KAÇAR E., İPEKSAÇ T., ÜRGЕН M. K.
8. International Advance Technologies Symposium, Elazığ, Turkey, 19 - 22 October 2017
- XX. **Investigation of Photoluminescence Properties of Eu-Doped Y2O3 Powders**
ÜNAL F., GÜRMEN S., KAZMANLI M. K., ÜRGЕН M. K.
2nd International Conference on Material Science and Technology in Cappadocia (IMSTEC'17), 11 - 13 October 2017, pp.599

- XXI. **Utilization of Cathodic arc Aluminum Plasma for the Production of Iron rich Aluminides on Carbon steels**
KAÇAR E., İpeksac T., YELKARASI Ç., ÜRGЕН M. K.
HyMap 2017, The 4th International Symposium on Hybrid Materials and Processing, 5 - 08 November 2017
- XXII. **A powerful tool: Changing the mode and magnitude of bias voltage in cathodic arc systems for tuning the properties of hard coatings and surface alloying**
ÜRGЕН M. K., Golnaz T. P. A., KAÇAR E., Akkaya S.
HyMap 2017, The 4th International Symposium on Hybrid Materials and Processing, 5 - 08 November 2017
- XXIII. **PRODUCTION OF HARD TITANIUM CARBIDE THICK FILMS ON STEEL SUBSTRATE VIA CAPVD BASED NOVEL APPROACH**
KAÇAR E., YELKARASI Ç., ÜRGЕН M. K.
INTERNATIONAL MATERIALS TECHNOLOGIES AND METALLURGY CONFERENCE 2017, 26 - 27 October 2017
- XXIV. **TEM characterization of free standing Ni nanowire structures obtained from different nickel electroplating baths and utilization of these structures as visible photocatalysts for nanorobotic applications**
AVCI B., VÍDAL S. P., ÜRGЕН M. K.
COST Action MP1407: Electrochemical processing methodologies and corrosionprotection for device and systems miniaturization: 3rd COST Workshop, Barcelona, Spain, 25 - 27 October 2017
- XXV. **The Role of Superimposing Pulse Bias Voltage on DC Bias on the Macroparticle Distribution and Structure of TiAlN Coatings Produced with CA-PVD**
Taghavi Pourian Azar G., Er D., ÜRGЕН M. K.
International Thin Films Conference (TACT 2017), 15 - 18 October 2017
- XXVI. **Nickel Oxide Based Materials For Supercapacitor Applications, mESC 2017, 2nd International Symposium on Materials for Energy Storage**
ÜRGЕН M. K., Tokmak N.
mESC 2017, 2nd International Symposium on Materials for Energy Storage, 26 - 28 September 2017
- XXVII. **Optical Properties of Y2O3 and Er-Doped Y2O3 Thin Films**
ÜNAL F., GÜRMEN S., KAZMANLI M. K., ÜRGЕН M. K.
EUROMAT 2017, 17 - 22 September 2017
- XXVIII. **Characterization of Yb3 Doped Y2O3 Thin Films Prepared by Electron Beam Evaporation Method**
ÜNAL F., EMİL E., GÜRMEN S., KAZMANLI M. K., ÜRGЕН M. K.
EUROMAT 2017, 17 - 22 September 2017
- XXIX. **The Effect of Ti Interlayer Coating Produced by CA-PVD by Using Different Modes of Bias Applications on the Corrosion Behavior of Mild Steel Substrate**
Er D., Taghavi Pourian Azar G., ÜRGЕН M. K.
EUROCORR 2017 20th ICC Process Safety Congress, 3 - 07 September 2017
- XXX. **Modification of TiN coatings to increase the osteointegration of hard tissue implants**
ÖNDER S., Çalikoğlu A. C., KÖSE G., Kazmanlı M. K., Ürgen M. K., Kök F. N.
The East-West Asia Biomaterials Symposium, Taoyuan, Taiwan, 23 - 26 August 2017, pp.1
- XXXI. **MULTILAYERED COATINGS OF TiB2 - Ti - TiC on CARBON STEELS via DUAL PROCESS: CAPVD and CRTD-Bor**
YELKARASI Ç., KARTAL ŞİRELİ G., TİMUR S. İ., ÜRGЕН M. K.
International Workshop on Advanced Materials Challenges for Healthand Alternative Energy Solutions (AMAES VI), Köln, Germany, 5 - 07 July 2017
- XXXII. **Potential of electroactive nickel oxides grown on nickel foam and self-standing nickel nanowires produced by molten salt anodization for supercapacitor applications**
Tokmak N. İ., AVCI B., ÜRGЕН M. K.
E-MRS'17, Strasbourg, France, 22 - 26 May 2017
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7th IEEE International Conference Nanomaterials - Application and Properties (NAP), Odessa, Ukraine, 10 - 15 September 2017

- XXXIV. **Measuring galvanic current by Zero Resistance Ammeter can be misleading when polarization of anode is low A case study TiN Carbon Steel Couple**

ÜRGÜN M. K., AVCI B.

COST Action MP1407: Electrochemical processing methodologies and corrosionprotection for device and systems miniaturization: 2nd COST Workshop, Atina, Greece, 12 - 14 October 2016

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TAGHAVI POURIAN AZAR G., KAÇAR E., ÜRGÜN M. K.

STRESS'16 Stress evolution in thin film and coatings: from fundamental understanding to control, CHICAGO, United States Of America, 2 - 05 October 2016

- XXXVI. **Investigation of Electrochemical Interactions between Hard Coatings and Substrates**

AVCI B., ÜRGÜN M. K.

IMMC'16 Istanbul-TR, 29 September - 01 October 2016

- XXXVII. **Aluminizing of steel surfaces at high temperatures by using cathodic arc PVD**

İPEKSAÇ T., KAÇAR E., ÜRGÜN M. K.

18. International metallurgy and materials congress, İstanbul, Turkey, 29 September - 01 October 2016

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IMMC'16 Istanbul-TR, 29 September - 01 October 2016

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Kaya O., Yavuz P., Yesilçubuk A., ÜRGÜN M. K.

IMMC'16, Istanbul-TR, 29 September - 01 October 2016

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Taghavi Pourian Azar G., KAÇAR E., ÜRGÜN M. K.

Stress'16 Chicago -ABD, 2 - 10 October 2016

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ÜNAL F., GÜRMEN S., KAZMANLI M. K., ÜRGÜN M. K.

18th International Metallurgy and Materials Congress, 29 September - 01 October 2016, pp.300

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18th International Metallurgy&Materials Congress, 29 September - 01 October 2016

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AVCI B., KAÇAR E., ÜRGÜN M. K.

EUROCORR 2016, Montpellier, France, 11 - 15 September 2016

- XLIV. **Galvanic corrosion investigations of TiN steel and TiN stainless steel couples**

AVCI B., KAÇAR E., ÜRGÜN M. K.

Eurocorr 2016, Advances in linking science to engineering, 11 - 15 September 2016

- XLV. **Structure Dependent Optical Properties of Ti_{1-x}Al_xN Coatings Produced by Cathodic Arc Physical Deposition**

Akkaya S., Özbay S., KAZMANLI M. K., ÜRGÜN M. K.

2016 E-MRS Spring Meeting, Lille, France, 2 - 06 May 2016

- XLVI. **The Effect of Pulse Bias Voltage on the Temperature Dependent Structural Stability of TiN Coatings Produced via Cathodic Arc**

Golnaz T., Akkaya S., ÜRGÜN M. K.

2016 43rd International Conference on Metallurgical Coatings and Thin Films, 25 - 29 April 2016

- XLVII. **Multilayered Coatings of TiB₂ TiC on medium carbon steels via dual process CAPVD and CRTD Bor yelkarası ç., KARTAL ŞİRELİ G., TİMUR S. İ., ÜRGÜN M. K.**

- The 43rd International Conference on Metallurgical Coatings and Thin Films, 25 - 29 April 2016, pp.20
- XLVIII. MULTILAYERED COATINGS OF TiB /TiC ON MEDIUM CARBON STEELS VIA DUAL PROCESS: CAPVD AND CRTD-BOR**
- YELKARASI Ç., KARTAL ŞİRELİ G., TİMUR S. İ., ÜRGÜN M. K.
- 3rd International Conference on Metallurgical Coatings and Thin Films, San Diego, United States Of America, 25 - 29 April 2016
- XLIX. Characterization of solar absorptance properties of Al_xTi_{1-x}N multilayer coatings produced by reactive magnetron sputtering technique**
- Özbay S., Akkaya S., KAZMANLI M. K., ÜRGÜN M. K.
- 2016 MRS Spring Meeting, 28 March - 01 April 2016
- L. Structure and Properties of TiN Coatings Deposited by Filtered Vacuum-arc Plasma in the Gas Mixture N-2 with Ar**
- Vasyliev V. V., Luchaninov A. A., Reshetnyak E. N., Strel'nitskij V. E., Urgen M. K.
- 6th International Conference on Nanomaterials - Applications & Properties (NAP), Lviv, Ukraine, 14 - 19 September 2016
- LI. Magnesium Doping in Titanium Nitride Coatings to Increase the Osteointegration of Hard Tissue Implants**
- ÖNDER S., CALIKOGLU-KOYUNCU A. C., Kazmanlı M. K., Ürgen M. K., Kök F. N., KÖSE G.
- 21st Biomedical Science and Technology Symposium, Antalya, Turkey, 22 - 24 October 2015, pp.1
- LII. Effect of Different Bias Modes on Structure and properties of Coatings and Diffusion Layers produced by Cathodic arc PVD**
- ÜRGÜN M. K., Öncel S.
- VEIT 2015 19th International Summer School on vacuum Electron and Ion technologies, 21 - 25 September 2015
- LIII. Production of Sub Micron Fe₃O₄ Particles From Steel Industry Pickling Solutions by Ultraconic Sprey Prolysis USP and Ferrofluid Materials**
- Çakmak T., Alten M. A., Buyukkircali B., Bagdatli M., Ocak M. S., KAZMANLI M. K., GÖLLER G., ÜRGÜN M. K., GÜRMEN S.
- PPM 2015: International Porous Powders and Materials, 15 - 18 September 2015
- LIV. ORIENTATION DEPENDENT TRIBOLOGICAL PROPERTIES OF TiN COATINGS**
- Akkaya S., Yildiz B., ÜRGÜN M. K.
- The International Conference on Understanding and Controlling Nano and Mesoscale Friction, 22 - 26 July 2015
- LV. Aluminizing Alloying of Metal Surfaces with cathodic Arc Plasma Treatment**
- ÜRGÜN M. K.
- 39th International Conference and Exposition on Advanced Ceramics and Composites, 25 - 30 January 2015
- LVI. Conical Shaped Surface Features Formation on Different Aluminum Alloys**
- Polat B. D., Keleş Ö., Ürgen M. K.
- IMMC 17. International Metallurgy and Materials Congress, İstanbul, Turkey, 11 - 13 September 2014, pp.149-158
- LVII. Modification of Magnesium Coated Titanium Surfaces to Control Its Corrosion Rate**
- Mazmanoğlu O., ÖNDER S., Kök F. N., Kazmanlı M. K., Ürgen M. K.
- 26th European Society of Biomaterials (ESB2014), Liverpool, United Kingdom, 31 August - 03 September 2014, pp.1
- LVIII. PRODUCTION OF NbTi ALLOYS WITH CATHODIC ARC PVD USING AC BIAS VOLTAGE**
- KAÇAR E., ÜRGÜN M. K., Öncel S.
- 2nd International Surface Treatment Symposium, İstanbul, Turkey, 25 - 27 July 2014
- LIX. Osteoblast Cell Proliferation on Magnesium-Substituted Hydroxyapatite (Mg-HA) Coatings**
- Kök F. N., ÖNDER S., Çalikoğlu A. C., Kazmanlı M. K., Ürgen M. K., KÖSE G.
- 16th European Congress on Biotechnology, Edinburg, United Kingdom, 13 - 16 July 2014, pp.52-53
- LX. Novel Method for the Production of Self Standing Ag Nanowires**
- KARAHAN B. D., KELEŞ Ö., ÜRGÜN M. K.
- 2nd. ISTS (International Surface Treatment Symposium), 25 - 27 June 2014
- LXI. The Effect of Acid Etch Pretreatment on Aluminum Extrusion Streaks**

- Akyil C., Sağıdış S., Ürgen M. K., Keleş Ö.
2nd International Surface Treatment Symposium, İstanbul, Turkey, 25 - 27 June 2014
- LXII. **GROWTH OF TiB₂ ON AISI 1040 STEEL VIA COMBINED DUAL PROCESS: PVD AND CRTD-BOR**
YELKARASI Ç., KARTAL ŞİRELİ G., TİMUR S. İ., ÜRGEN M. K.
2ND INTERNATIONAL SURFACE TREATMENT SYMPOSIUM, İstanbul, Turkey, 25 - 27 June 2014
- LXIII. **Characterization of (Ti,Mg)N Thin Film Coatings Produced via Physical Vapor Deposition**
ÖNDER S., KÖSE G., Kök F. N., Kazmanlı M. K., Ürgen M. K.
TMS 2013 142nd Annual Meeting & Exhibition, Biological Materials Science Symposium, San Antonio, United States Of America, 3 - 07 March 2013, pp.1
- LXIV. **Construction of (Ti,Mg) thin film coatings via physical vapor deposition technique and their properties**
ÖNDER S., Kök F. N., Kazmanlı M. K., Ürgen M. K.
4th International Symposium: Interface Biology of Implants, Warnemünde, Germany, 09 May 0201 - 11 May 2012, pp.1
- LXV. **Surface Paterning of Aluminum in H₃PO₄ and H₂SO₄ Mixtures and Using Them as Templates for Fabrication of Free Standing Nanowires**
Polat B. D., Bayata F., Keleş Ö., Ürgen M. K.
220th. The Electrochemical Society Meeting, Boston, United States Of America, 9 - 11 October 2011
- LXVI. **Formation of TiB₂ coating on WC Co inserts via physical vapor deposition PVD and electrochemical boriding EB**
KARTAL ŞİRELİ G., ÜRGEN M. K., TİMUR S. İ.
International Symposium on Boron, Borides and Related Materials, İstanbul, Turkey, 11 - 17 September 2011, pp.304
- LXVII. **Barnacle-shaped Imperfections Formation on Different Aluminum Alloys**
Polat B. D., Keleş Ö., Ürgen M. K.
1. Uluslararası Yüzey İşlemleri Sempozyumu, İstanbul, Turkey, 15 - 18 June 2011
- LXVIII. **ELECTROCHEMICAL CHARACTERIZATION OF TRC 7072AA FOR HEAT EXCHANGERS**
Dursun A., Corlu B., Akyil C., Inel C., Dundar M., Erdogan R., Urgen M. K.
Technical Session on Light Metals 2010 held at the 139th TMS Annual Meeting, Washington, United States Of America, 14 - 18 February 2010, pp.735-736
- LXIX. **Innovative Surface Technologies for Advanced Automotive Applications From Super Hard and Low Friction Coatings to Super Fast Surface Treatments**
erdemir a., KARTAL ŞİRELİ G., eryilmaz l., KAZMANLI M. K., TİMUR S. İ., ÜRGEN M. K.
The 36th International Conference on Metallurgical Coatings and Thin Films, SAN DIEGO, United States Of America, 27 April - 01 May 2009, pp.115
- LXX. **Alternative Approach for Determination of Energy Band Gap of Semiconductors Through Electrical Analysis**
ÖZDEMİR O., Tatar B., Yilmazer D., CHOI F. P., Ürgen M. K., KUTLU K.
7th International Conference of the Balkan-Physical-Union, Alexandroupoli, Greece, 9 - 13 September 2009, vol.1203, pp.875-877
- LXXI. **Comparison of oxidation behavior of nitride based hard ceramic thin film coatings using thermal analysis techniques**
Solak N., Ustel F., Aydin S., Urgen M. K., Cakir A. F.
Sohn International Symposium on Advanced Processing of Metals and Materials, California, United States Of America, 27 - 31 August 2006, pp.253-255
- LXXII. **Residual stresses in MoN and Mo₂N coatings deposited by arc PVD on high speed steel substrate**
Sarioglu C., Demirler U., Kazmanlı M., Ürgen M. K.
15th International Conference on Surface Modification Technologies, Indiana, United States Of America, 5 - 08 November 2001, pp.215-223
- LXXIII. **Ürün Tasarımında Kalite Olgusu ve Malzeme Seçimi ve Ölçme Kontrol Yöntemlerinin Ürün Kalitesine Etkisi**

Taptık İ. Y., Ürgen M. K., Keleş Ö., Doğansoysal M., Doğansoysal M.
8. Uluslararası Metalurji ve Malzeme Kongresi, İstanbul, Turkey, 5 - 09 June 1995, pp.1391-1399

Supported Projects

- Ürgen M. K., Project Supported by Higher Education Institutions, Alaşımı Akımsız Nikel Kaplamaların Aşınma ve Oksidasyon Davranışlarının İncelenmesi, 2014 - 2015
- Ürgen M. K., Project Supported by Higher Education Institutions, Mo-Sn-N Kaplamaların İkiz MagnetronTekniği ile Üretilimi ve Optik -Elektrik Özelliklerinin İncelenmesi, 2011 - 2013
- Ürgen M. K., Project Supported by Higher Education Institutions, Peptit ile Fonksiyonlandırılmış Nanoparçacıkların Langmuir Blodgett Yöntemi ile Kuartz Yüzey Üzerine Kaplanması ve Karakterizasyonu, 2011 - 2012
- Ürgen M. K., Project Supported by Higher Education Institutions, Titanyum Anodizasyonu Yöntemi ile Boyar Maddeli Güneş Pili Hücresi Üretimi, 2010 - 2012
- Ürgen M. K., Project Supported by Higher Education Institutions, YÜZYEY POTANSİYELİNİN (111)ALTIN YÜZEYİNE ÖZGÜL OLARAK BAĞLANAN PEPTİT MUTANTLARININ ADSORPSİYON DAVRANIŞINIA ETKİSİ, 2010 - 2012
- Ürgen M. K., Project Supported by Higher Education Institutions, Al-Cu Alaşımının Ark Fiziksel Buhar Biriktirme Sisteminde Yayındırma Yoluyla Üretimi, 2010 - 2011
- Ürgen M. K., Project Supported by Higher Education Institutions, Sert Metal Uçlar Üzerine Katodik Ark FBB Tekniği ile Kaplanan TİAIN Kaplamaların Özellikleri, 2002 - 2010
- Ürgen M. K., Project Supported by Higher Education Institutions, Method for the Preparation of Nanostructures and Nanowires, 2006 - 2008
- Ürgen M. K., Project Supported by Higher Education Institutions, Gaz Yıkamalı Çekerek Ocak İle Analiz Laboratuarında Minimizasyon, 2001 - 2002

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- H-Index (Scopus): 25