

Adress: 34 Howard Close
Loughborough/Leicestershire
LE11 4TL
United Kingdom

Mobile:+447480630580
e-mail:r.katirci@lboro.ac.uk



Dr. Ramazan KATIRCI

Research Project Manager

Personel Details	Nationality: T.C Date of Birth :15Ekim 1974 Place of Birth :MENGEN/BOLU TURKEY MaritalStatus :Maried
Personel Statement	I am a person with knowledge and practical experiences in areas of semiconductor photodiode, metal/non-metal electroplating process, thin film and selective coatings gained through both academic study and work experience for more than 10 years. I conducted more than 6 project awarded by the government. Some of these were the joint projects with private companies.
Ambition	My plans include development and management of the innovation products and projects awarded by the state agency.
Area of Expertise	<ul style="list-style-type: none">➤ Spectral and electrochemical characterization of semiconductors<ul style="list-style-type: none">○ Built-in voltage (Vbi)○ Bias voltage (Vbias)○ Open-circuit voltage (Voc)○ Short-circuit current (Jsc)○ Saturation (leakage) current (Jo)○ Maximum power point (MPP)○ Fill factor (FF)○ Resistivity○ Carrier Concentration○ Carrier Mobility○ Surface charge○ Recombination Lifetime○ Diffusion length○ Generation lifetime○ Interface/Surface recombination velocity

	<ul style="list-style-type: none"> ○ Carrier mobility ○ Refractive index ○ Film thickness ○ Fundamental Band Gap ○ Surface roughness ○ Defects: pinhole density etc. ○ Spectral Response ○ I -V curve *(Voc, Isc and FF) ➤ Electrochemical studies (Potentiostat/Galvanostat) <ul style="list-style-type: none"> ○ Chronoamperometry ○ Chronopotentiometry ○ Impedance (Cathode surface characterization) ○ Pulse applications ○ Tafel measurements (corrosion resistance, rate, etc.) ➤ Surface and structure characterization (SEM-EDS, XRD) <ul style="list-style-type: none"> ○ Surface morphology (smoothness, grain boundary, thickness) ○ Crystallinity ○ Grain size ➤ Electroplating process <ul style="list-style-type: none"> ○ Nickel electroplating ○ Copper electroplating ○ Bronze electroplating ○ Chromium electroplating ○ Brass electroplating ○ Zinc electroplating (Alkaline, acidic) ○ Zinc-nickel electroplating (alkaline) ○ Passivation and cleaning baths.
<p>Awarded Projects</p>	<ul style="list-style-type: none"> ➤ Project No: 7130913, Project Manager: Ramazan Katirci. Subject: The development of Ag/AgCl electrode coating system for electrocardiography instrument. 2013-2014, awarded by Tubitak. Turkey ➤ Project No: 7130160, Project Manager: Ramazan Katirci. Subject: The development of alloy deposition electrolyte to increase the corrosion resistance of otomotive parts. 2013-2014, awarded by Tubitak. Turkey ➤ Project No: 0020.TGSD.2012, ProjectManager: Ramazan Katirci, Subject: The development of metal alloy absorber that absorbs the solar light with high efficiency for thermal solar panels (It doesn't include Cr, Ni, Cd, Co), 2012-2013, awarded by Industrial Ministry. Turkey ➤ Project No: 7090638, ProjectManager: Ramazan Katirci, Subject: The development of environmental friendly chromium bath with trivalent chromium

	<p>salts., 2009-2011, awarded by Tubitak. Turkey</p> <ul style="list-style-type: none"> ➤ Project Manager: Ramazan Katirci, The development of nickel brightener presenting high performance at the region of low current density, 2014-2015, awarded by KOSGEB. Turkey ➤ Researcher: Ramazan Katirci, The investigation of organic additives used in Nickel electroplating bath with electrochemical methods., <i>BAP Project</i>. Turkey ➤ Researcher: Ramazan Katirci, Modelling Steven Rearrangement 2-Methyl 1,3-Dioxepin Molecule Undergo Reaction With Diazobis(Carbonyl) Compounds To Form Oxonium Ylides In The Presence Of Catalyst ([Cu(Acac)₂]). (2003-2005, Technical University of İstanbul/Turkey), <i>BAP projesi</i>. Turkey
<p><i>International Publications (SCI, SCI Expanded)</i></p>	<ol style="list-style-type: none"> 1) Katirci R*, Statistical optimization of trivalent chromium bath and characterization of coating defects, <i>Surface Engineering</i>, 31 (6) (2015) 465-471. DOI: 10.1179/1743294415Y.0000000013 2) Katirci R*, A novel Cr coating from a trivalent chromium bath containing extremely low concentration of Cr³⁺ ions, <i>International Journal of Surface Science and Engineering</i>, accepted 2014. http://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijsurfse 3) Katirci R*, Statistical Approach to Optimise a Zn-Ni bath containing ED and TEA, <i>Surface Review and Letters</i>, 22 (1) (2015). DOI: 10.1142/S0218625X15500158 4) Katirci R*, Effects of ZnO and NaOH in Zn-Ni bath, <i>Surface Engineering</i>, 31 (1) (2015) 11-16. DOI 10.1179/1743294414Y.00000000341 5) Katirci R*, Yılmaz U., Statistical studies of Zn-Ni alloy coatings using non-cyanide alkaline baths containing polyethyleneimine complexing agents, <i>Transaction of IMF</i>, 92 (5) (2014) 245-252. DOI 10.1179/0020296714Z.000000000195 6) Katirci R*, Sezer E., Ustamehmetoğlu B., Statistical Optimization of Organic Additives for Maximum Brightness and Brightener Analysis in a Nickel Electroplating Bath, <i>Transaction of IMF</i>, 93 (2) (2015) 89-96. DOI: 10.1179/0020296714Z.000000000219 7) Sezer E*, Ustamehmetoğlu B., Katirci R., "Effects of functional groups of triple bonds containing molecules on nickel electroplating", <i>Turkish Journal of Chemistry</i>, 38 (2014) 701-715 DOI: 10.3906/kim-1309-63 8) Sezer E*, Ustamehmetoğlu B., Katirci R., "Effects of a N,N-dimethyl-N-2-propenyl-2-propene-1-ammonium chloride-2-propenamide copolymer on bright nickel plating", <i>Surf. Coat. Tech.</i>, 213 (2012) 253-263. doi:10.1016/j.surfcoat.2012.10.057

<p><i>International publication (withreferee)</i></p>	<p>9) Sezer E*,Ustamehmetoğlu B., Katırcı R., “TheInvestigation Of ElectrochemicalEffect Of DiolCompoundsInNickelElectroplatingBath ”Journal of MaterialsScienceandEngineeringwith Advanced Technology” 8, (2) (2013), 55-68</p>
<p><i>Nationalpublications (withoutreferee)</i></p>	<p>1) Katırcı R.,”NickelElectroplatingCharacterization/Nikel ElektrokaplamaKarakterizasyonu”, Yüzey İşlemler, Mart-Nisan, 89, 2013, sayfa: 38.http://www.telepatireklamcilik.com/dergi-detay/79-yuzey-islemler-dergisi-sayi-89-telepati-reklamcilik.html</p> <p>2) Katırcı R.,”Theimproving of physicalandchemicalproperties of metal coatings/Metal Kaplamaların Fiziksel ve Kimyasal Özelliklerinin İyileştirilmesi”, Yüzey İşlemler, Ocak-Şubat, 88 2013, sayfa: 12.http://www.telepatireklamcilik.com/dergi-detay/80-yuzey-islemler-dergisi-sayi-88-telepati-reklamcilik.html</p> <p>3) Katırcı R.,”Thepurificationtechnique in nickelbathsandregeneration of newbath/Nikel Banyolarında Saffaştırma Teknikleri ve Yeni bir Banyo Oluşturma”, Yüzey İşlemler, Mayıs-Haziran, 90, 2013, sayfa: 74. http://www.telepatireklamcilik.com/dergi-detay/78-yuzey-islemler-dergisi-sayi-90-telepati-reklamcilik.html</p> <p>4) Katırcı R.,”NickelElectroplating/Nikel Elektrokaplama”, Kimya Magazin, Ağustos, 137, 2013, sayfa: 30. http://www.telepatireklamcilik.com/dergi-detay/77-kimya-magazin-dergisi-sayi-137-telepati-reklamcilik.html</p> <p>5) Katırcı R., “NickelElectroplating/Nikel Elektrokaplama”, Turchem, Mayıs-Haziran 2012</p>
<p><i>Posterpresentations</i></p>	<p>1) Katırcı R., Yılmaz U., Statistical Studies of Zn–Ni Alloy Coatings using Non-Cyanide Alkaline Baths Containing PolyethyleneimineComplexing Agents, 2. Surface Treatment Symposium, International Congress, 25-27 June 2014, İ.T.Ü. Turkey</p> <p>2) Sezer E., Ustamehmetoğlu B., Katırcı R.,Effects of a N,N-dimethyl-N-2-propenyl-2-propene-1-ammoniumchloride-2-propenamamide copolymer on bright nickel plating ”, XXVI. National Chemistry Congress, 1-6 October 2012. Turkey</p> <p>3) Sezer E., Ustamehmetoğlu B., Katırcı R.,”Effects of organicadditiveshavingtriplebondandmultilayercoating on thecorrosionbehavior of brightnickeldepositedmaterial”, XXVI. National Chemistry Congress, 1-6 October 2012. Turkey</p> <p>4) Sezer E., Ustamehmetoğlu B., Katırcı R.,”The Effects Of TripleBond Containing Organic Additives On Corrosion Behavior Of NickelElectroplating”,</p>

	<p>Eurocorr 2012-The European Corrosion Congress, 9-13 September, Istanbul.Turkey</p> <p>5) Sezer E., Ustamehmetoğlu B., Katırcı R.,"CorrosionBehaviour Of Single And Multilayer Nickel And Chromated Nickel Electrodeposits", Eurocorr 2012-The European Corrosion Congress, 9-13 September, Istanbul. Turkey</p>
Patents	<ul style="list-style-type: none"> ➤ Sezer E., Ustamehmetoğlu B., Katırcı R. Bright Nickel Coating, Patent no: 2012/04968. Turkey ➤ Katırcı R., The development in trivalent chromium bath, Patent no: 2010/05789. Turkey
Experiences of Instruments	<ul style="list-style-type: none"> ➤ XRD measurements ➤ SEM-EDX ➤ Potentiostat/Galvanostat (PAR-STAT, GAMRY) ➤ Profilometer ➤ HPLC (High pressure liquid chromatography) ➤ GC (Gas chromatography) ➤ UV-visible Spectrophotometer ➤ FT-IR ➤ AAS (Atomic Absorption Spectroscopy) ➤ X-Ray Fluorescence (XRF) ➤ Hull-Cell Equipments ➤ Salt Spray Test Instrument
Experiences of Experimental Design Methods	<ul style="list-style-type: none"> ➤ Taguchi methods ➤ Mixture methods ➤ Factorial design (Full, fraction) ➤ Response surface design
WorkExperiences	<p>2015 Haz.-2016Haz.LoughboroughUniversitesi, CRESTUK</p> <ul style="list-style-type: none"> ■ Postdoctorate, Photovoltaic,Thin film coating ■ Theresearchsubject:Thedevelopment of p-type CZTS thin film coatingprocesshavinghigh efficiency. <p>2012-ASR Electrochemical Energy Sis. Ltd. Co. İstanbul</p> <p>Thecompanymanagetheresearchprojectsanddevelops solar absorberfor solar thermalpanelsandsemiconductorphotodiodeforphotovoltaicpanelsusingelectroplatin</p>

	<p>gmethod.</p> <p>R&D and Project Manager</p> <p>2013 April -2015 May MKS End. Kim. San. Ve Tic. A.Ş Istanbul The supplier and producer of chemicals for electroplating baths.</p> <p>R&D Manager</p> <p>2013- 2013 Arel University Istanbul Academic staff (part-time) Lectures given: (2012-2013) Engineering Materials (English) (2012-2013) Fundamentals of Business Administration) (English)</p> <p>2005-2011 Dede Kimya Istanbul The supplier and producer of chemicals for electroplating baths.</p> <p>R&D Manager</p> <p>2003-2005 TNT Ipekyolu Fair Organization Istanbul IT Manager (part time)</p> <p>2001-2002 Net Civata (Secrew company) Istanbul The Manager of Plating Department</p> <p>2000-2001 Hoechst-Marion-Roussel (Medicine firm) Istanbul Analyst</p>
Internship	<p>2001 Samatya Hospital of Istanbul Istanbul ■ Biochemistry Laboratory (blood & urine tests)</p>
Educations	<p>2005-2012 November Technical University of Istanbul Turkey ■ Doctorate, Electrochemistry, Electroplating, Metal coating ■ My thesis subject: Development and characterization of organic additives on nickel electrodeposition</p> <p>2001- 24/06/2005 Technical University of Istanbul Turkey ■ Master, Department of Chemistry (Physical Chemistry) ■ My thesis subject: The Mechanistic Behaviour of Ylides Obtained from the α, β-Conjugated Aldehydes, Ketones and Esters: A Computational Approach</p> <p>1995-2000 Uludağ University of Bursa Turkey</p>

	<ul style="list-style-type: none"> ■ Chemistry <p>2011- T.C. Anadolu University Turkey</p> <ul style="list-style-type: none"> ■ Economy, Distance learning <p>1991- 1994Kağıthane High School İstanbul/ Turkey</p>
Certificates	<p>2012 E- Trade, (YORKTRADE)</p> <p>2012 Entrepreneurship (KOSGEB)</p> <p>2004 Toefl (Boğaziçiüniversitesi, 120 saat)</p> <p>2001 English proficiency (İ.T.Ü Foundation, 840 saat)</p>
Computer Skills	<p>MS Office (Word, Excel, PowerPoint), Microsoft Visual Basic, Gaussian03, Spartan02, Suselinux , Red Hat 9.0,Windows(95,98,XP,Vista), Labview, Matlab, Minitab</p>
References:	<p>Prof.Dr. Esmâ Sezer (Chemistrydepartment) (Thesupervisor of mydoctoratethesis) İstanbul Technical Universitye-mail: esezer@itu.edu.tr</p> <p>Prof.Dr. Belkıs Ustamehmetoğlu(Chemistrydepartment) (Thesupervisor of Doctoratethesis) İstanbul Technical Universitye-mail: belkis@itu.edu.tr</p> <p>Assoc.Prof. Nurcan Tüzün (Chemistrydepartment) (Thesupervisor of mymasterthesis) İstanbul Technical University: nurcant@itu.edu.tr</p> <p><u>Prof. Dr. Ahmet Gül (Kimyabölümü) ,İstanbul Technical University, e-mail: ahmetg@itu.edu.tr</u></p>