

Assoc. Prof. Elif DAŞ

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International Researcher IDs

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Publons / Web Of Science ResearcherID: M-6894-2014

ScopusID: 57105019900

Yoksis Researcher ID: 281835

Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Nanobilim Ve Nanomühendislik, Turkey 2014 - 2018

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Nanobilim Ve Nanomühendislik, Turkey 2012 - 2014

Undergraduate, Ataturk University, Fen Fakültesi, Fizik, Turkey 2007 - 2010

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Personal Evolution, Akademik Gelişim Sertifikası, Atatürk Üniversitesi, 2023

Vocational Training, 2237-A Lisansüstü Akademik Danışmanlık Eğitimi, Atatürk Üniversitesi, 2021

Education Management and Planning, 4. Ulusal Uygulamalı Elektrokimya Yaz Okulu ve Çalıştay, Celal Bayar Üniversitesi, 2016

Education Management and Planning, International Summer School on Materials for Energy Storage and Conversion, ODTÜ, 2015

Education Management and Planning, Radiation Protection Safety Courses, Leonardo da Vinci Hareketlilik Programı, 2013

Education Management and Planning, Clean Environment Clean Energy Eğitim Semineri, Leonardo da Vinci Hareketlilik Programı, 2013

Dissertations

Doctorate, Süperkritik karbondioksit depozisyon tekniği ile hazırlanan grafen bazlı platin katalizörlerin sentezi, karakterizasyonu ve PEM yakıt pilinde kullanımı, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Nanobilim Ve Nanomühendislik, 2018

Postgraduate, PEM yakıt pilleri için iletken polimer karbon destekli platin katalizörlerin mikrodalga yöntemi ile

Research Areas

Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Ataturk University, Fen Fakültesi, Fizik, 2020 - Continues

Research Assistant, Ataturk University, Fen Fakültesi, Fizik, 2018 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The synthesis of MgO and MgO-graphene nanocomposite materials and their diode and photodiode applications**
Yildirim G. B., DAŞ E.
PHYSICA SCRIPTA, vol.98, no.8, 2023 (SCI-Expanded)
- II. **Highly Efficient Oxygen Electrode Obtained by Sequential Deposition of Transition Metal-Platinum Alloys on Graphene Nanoplatelets**
Mladenović D., Daş E., Santos D. M. F., BAYRAKÇEKEN YURTCAN A., Šljukić B.
Materials, vol.16, no.9, 2023 (SCI-Expanded)
- III. **Synthesis of electron-rich thiophene triphenylamine based organic material for photodiode applications**
Erdog M., ORHAN Z., DAŞ E.
OPTICAL MATERIALS, vol.128, 2022 (SCI-Expanded)
- IV. **Effect of solvent exchange on the properties of carbon xerogel and carbon xerogel/polypyrrole composites for supercapacitors**
Samancı M., Daş E., Bayrakçeken Yurtcan A.
CARBON LETTERS, vol.31, no.6, pp.1287-1308, 2021 (SCI-Expanded)
- V. **Electrical and photoelectrical properties of Schottky diode construction with three-dimensional (3D) graphene aerogel interlayer**
DAŞ E.
Optical Materials, vol.121, 2021 (SCI-Expanded)
- VI. **A comparative study on electrical characteristics of Ni/n-Si and Ni/p-Si Schottky diodes with Pinus Sylvestris Resin interfacial layer in dark and under illumination at room temperature**
DAŞ E., İNCEKARA Ü., AYDOĞAN Ş.
OPTICAL MATERIALS, vol.119, 2021 (SCI-Expanded)
- VII. **Simultaneously deposited Pt-alloy nanoparticles over graphene nanoplatelets via supercritical carbon dioxide deposition for PEM fuel cells**
DAŞ E., Gursel S. A., BAYRAKÇEKEN YURTCAN A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.874, 2021 (SCI-Expanded)
- VIII. **Electrocatalytical Application of Platinum Nanoparticles Supported on Reduced Graphene Oxide in PEM Fuel Cell: Effect of Reducing Agents of Dimethylformamide or Hydrazine Hydrate on the Properties**
Daş E., Öztürk A., Bayrakçeken Yurtcan A.
ELECTROANALYSIS, vol.33, no.7, pp.1721-1735, 2021 (SCI-Expanded)
- IX. **Carbon aerogel and their polypyrrole composites used as capacitive materials**
Samancı M., Daş E., Bayrakçeken Yurtcan A.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.2, pp.1729-1747, 2021 (SCI-Expanded)

- X. **Pt-alloy decorated graphene as an efficient electrocatalyst for PEM fuel cell reactions**
Daş E., Gursel S. A., Yurtcan A.
JOURNAL OF SUPERCRITICAL FLUIDS, vol.165, 2020 (SCI-Expanded)
- XI. **Synthesis of CuO-graphene nanocomposite material and the effect of gamma radiation on CuO-graphene/p-Si junction diode**
Orhan Z., Cinan E., Çaldıran Z., Kurucu Y., Daş E.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.15, pp.12715-12724, 2020 (SCI-Expanded)
- XII. **Graphene nanoplatelets-carbon black hybrids as an efficient catalyst support for Pt nanoparticles for polymer electrolyte membrane fuel cells**
Daş E., Kaplan B. Y., Gursel S. A., Yurtcan A.
RENEWABLE ENERGY, vol.139, pp.1099-1110, 2019 (SCI-Expanded)
- XIII. **Platinum/polypyrrole-carbon electrocatalysts for direct borohydride-peroxide fuel cells**
Oliveira R. C. P., Milikic J., Daş E., Yurtcan A., Santos D. M. F., Sljukic B.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.238, pp.454-464, 2018 (SCI-Expanded)
- XIV. **Chemically synthesized reduced graphene oxide-carbon black based hybrid catalysts for PEM fuel cells**
Bayrakçeken Yurtcan A., Daş E.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.40, pp.18691-18701, 2018 (SCI-Expanded)
- XV. **PEDOT/C Composites used as a Proton Exchange Membrane Fuel Cell Catalyst Support: Role of Carbon Amount**
Daş E., Yurtcan A.
ENERGY TECHNOLOGY, vol.5, no.9, pp.1552-1560, 2017 (SCI-Expanded)
- XVI. **Thermodynamically controlled Pt deposition over graphene nanoplatelets: Effect of Pt loading on PEM fuel cell performance**
Daş E., Gursel S. A., Sanli L. I., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.30, pp.19246-19256, 2017 (SCI-Expanded)
- XVII. **Effect of carbon ratio in the polypyrrole/carbon composite catalyst support on PEM fuel cell performance**
Daş E., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.30, pp.13171-13179, 2016 (SCI-Expanded)
- XVIII. **Comparison of two different catalyst preparation methods for graphene nanoplatelets supported platinum catalysts**
Daş E., Gursel S. A., Sanli L. I., Yurtcan A.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.23, pp.9755-9761, 2016 (SCI-Expanded)

Articles Published in Other Journals

- I. **Green Synthesis of Reduced Graphene Oxide and Device Fabrication for Optoelectronic Applications**
Daş E.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.14, no.2, pp.524-541, 2021 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Other possible fuels and possible use of blended fuels in fuel cells**
Daş E., Ungan H., Bayrakçeken Yurtcan A., Fıçıcılar B.
in: Direct liquid fuel cells: Fundamentals, Advances and Future, Ramiz Gültekin Akay, Ayşe Bayrakçeken Yurtcan, Editor, Academic Press, Massachusetts, pp.249-273, 2020

Refereed Congress / Symposium Publications in Proceedings

- I. **Simultaneously Deposited PtM (M= Ni, Fe, Cu) on Graphene Nanoplatelet As Bifunctional Oxygen Electrode Catalysts**
Mladenović D., Daş E., Santos D. M., Bayrakçeken Yurtcan A., Miljanić Š., Šljukić B.
4 th International Meeting on Materials Science for Energy Related Applications, Belgrade, Serbia, 22 - 23 September 2021, pp.40-41
- II. **Fabrication and characterization of Al/n-Si/Al schottky diode with rGO interfacial layer obtained by using spin coating method**
Daş E., Orhan Z., Aydoğan Ş., Güzeldir B.
2nd International Congress on Semiconductor Materials and Devices (ICSMD), Ardahan, Turkey, 28 - 30 August 2018, vol.46, pp.6899-6903
- III. **FABRICATION and CHARACTERIZATION of Al/rGO/n-Si/Al HETEROJUNCTION DIODE**
Daş E., Orhan Z., Aydoğan Ş., Güzeldir B.
2nd International Congress on Semiconductor Materials and Devices (ICSMD), Ardahan, Turkey, 28 - 30 August 2018, pp.66-72
- IV. **Karbon Aerojel ve Kserojel Yapılarına Polipirol Eklenmesi ile Hazırlanan Kompozitlerin Kapasitif Özelliklerinin Değişimi**
Samancı M., DAŞ E., Bayrakçeken Yurtcan A.
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 3 - 06 September 2018, pp.64-68
- V. **Destekli Katalizörlerin Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., Alkan Gursel S., Bayrakçeken Yurtcan A.
13. Ulusal Kimya Mühendisliği Kongresi, Turkey, 03 September 2018, pp.202-206
- VI. **Destekli Katalizör Sentezinde Süperkritik Karbondioksit Depozisyon Yönteminin Kullanımı**
DAŞ E., ALKAN GÜRSEL S., BAYRAKÇEKEN YURTCAN A.
Ulusal Kimya Mühendisliği Kongresi 13 (UKMK-13), Van, Turkey, 3 - 06 September 2018, pp.1-5
- VII. **Graphene: A Promising Catalyst Support for Oxygen Reduction Reaction in Polymer Electrolyte Membrane Fuel Cells**
YARAR KAPLAN B., JAMİL E., GHOBADİ S., HAGHMORADİ N., ABDOLHOSSEİNZADEH S., FAİSAL JAMİL M., BİÇER E., DAŞ E., Bayrakçeken Yurtcan A., ALKAN GURSEL S.
233rd ECS Meeting, 13 - 17 May 2018
- VIII. **Durability Investigation of Graphene Supported Bimetallic Catalysts for PEM Fuel Cell Applications**
DAŞ E., ALKAN GURSEL S., Bayrakçeken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- IX. **Synthesis and Characterization of Bimetallic Catalysts for PEM Fuel Cells**
DAŞ E., ALKAN GURSEL S., Bayrakçeken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- X. **Chemically Synthesized Reduced Graphene Oxide-Carbon Black based Hybrid Catalysts for PEM Fuel Cells**
DAŞ E., Bayrakçeken Yurtcan A.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 September 2017 - 28 September 2018
- XI. **Supercritical Carbon Dioxide Deposition as a Promising Catalyst Preparation Method for PEM Fuel Cell Electrocatalysts**
Bayrakçeken Yurtcan A., DAŞ E., ALKAN GURSEL S.
2nd International Symposium on Materials for Energy Storage and Conversion, 26 - 28 September 2017
- XII. **PPy/C Destekli Pt Elektrokatalizörlerin ORR Aktivitelerinin İncelenmesi**
DAŞ E., Bayrakçeken Yurtcan A.
IV. Uygulamalı Elektrokimya Lisansüstü Yaz okulu ve Çalıştayı, Turkey, 24 - 27 May 2016
- XIII. **Carbon Black-Graphene Hybrid Support Materials For PEM Fuel Cell Electrocatalysts**
DAŞ E., ALKAN GURSEL S., İSİKEL SANLI L., Bayrakçeken Yurtcan A.

NCC6-6th Catalysis Conference, 27 - 30 March 2016

- XIV. **Electrochemical Behaviour of Hybrid Nanostructured Materials For PEM Fuel Cell Electrocatalysts**
DAŞ E., ALKAN GURSEL S., İSİKEL SANLI L., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, 27 - 30 March 2016
- XV. **Reduced Graphene Oxide (rGO) Supported Pt Nanoparticles : Effect of Different Reducing Agents on rGO**
Daş E., Öztürk A., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, Bursa, Turkey, 27 March - 30 April 2016, pp.44
- XVI. **PtCu/C Bimetallic Catalysts For PEM Fuel Cells**
Öztürk A., Daş E., Bozkurt G., Bayrakceken Yurtcan A.
NCC6-6th Catalysis Conference, Bursa, Turkey, 27 - 30 March 2016, pp.96
- XVII. **Electrode Prepared By Supercritical Carbon Dioxide Deposition Technique For PEM Fuel Cell**
DAŞ E., Bayrakceken Yurtcan A.
International Physics Conference, 25 - 27 February 2016
- XVIII. **Synthesis of CuO/GO Nanocomposites as Electrode Materials for Supercapacitors**
BOZKURT G., DAŞ E., Bayrakceken Yurtcan A., ÖZER A.
4th Nano Today Conference, 6 - 10 December 2015
- XIX. **Reduced Graphene Oxide Synthesis Followed by Two Different Reduction Routes as Support Material for PEM Fuel Cell Electrocatalysts**
DAŞ E., Bayrakceken Yurtcan A.
4th Nano Today Conference, 6 - 10 December 2015
- XX. **Reduced Graphene Oxide Supported Pt Nanoparticles**
DAŞ E., Bayrakceken Yurtcan A.
4th Nano Today Conference, 6 - 10 December 2015
- XXI. **Preparation of Graphene Nanoplatelet Supported Platinum Catalysts by Supercritical Carbon Dioxide Deposition**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XXII. **Capacitive Energy Storage with Carbon Aerogel, Carbon Xerogel and Their Polypyrrole Composites**
SAMANCI M., DAŞ E., Bayrakceken Yurtcan A.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XXIII. **CuO/Graphene Oxide Nanocomposite for Supercapacitors**
BOZKURT G., DAŞ E., Bayrakceken Yurtcan A., ÖZER A.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XXIV. **Comparison of Two Different Catalyst Preparation Methods for Graphene Nanoplatelet Supported Platinum Catalysts**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
International Symposium on Materials for Energy Storage and Conversion, 7 - 09 September 2015
- XXV. **Graphene Nanoplatelets Supported Pt Electrocatalysts**
DAŞ E., Bayrakceken Yurtcan A., ALKAN GURSEL S., İSİKEL SANLI L.
2nd Global Conference on Energy, Soil, Water, Air and Environment, 11 - 13 December 2014
- XXVI. **PEM yakıt pilleri için PPy/C destekli Pt katalizörlerin mikrodalga yöntemi ile sentezi ve karakterizasyonu**
DAŞ E., Bayrakceken Yurtcan A.
11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 2 - 05 September 2014
- XXVII. **Karbon Aerojel ve Karbon Kserojel Sentezi ve Karakterizasyonu**
SAMANCI M., DAŞ E., Bayrakceken Yurtcan A.
11. Ulusal Kimya Mühendisliği Kongresi, Turkey, 2 - 05 September 2014
- XXVIII. **Effect of Microwave Duration on the Synthesis of PPy:C Supported Pt Catalysts via Microwave Irradiation Technique**
DAŞ E., Bayrakceken Yurtcan A.

10th Nanoscience and Nanotechnology Conference, 17 - 21 June 2014

XXIX. Electrocatalytic Activity of Platinum/Pedot:Carbon Electrocatalysts for PEM Fuel Cells

DAŞ E., Bayrakceken Yurtcan A.

10th Nanoscience and Nanotechnology Conference, 17 - 21 June 2014

XXX. Conducting Polymer/Carbon Composite Supported Platinum Catalysts Prepared by Supercritical Carbon Dioxide Deposition

BAYRAKÇEKEN YURTCAN A., DAŞ E., BOZKURT G., MEMİOĞLU F.

XIth European Congress on Catalysis (Europacat XI), Lyon, France, 1 - 06 September 2013, pp.1

XXXI. Microwave Irradiation Technique Used for Catalyst Preparation

Bayrakceken Yurtcan A., DAŞ E., BOZKURT G., MEMİOĞLU F.

11th European Congress on Catalysis- EuropaCat-XI, 1 - 06 September 2013

XXXII. Conducting Polymer/Carbon Composite Supported Platinum Catalysts Prepared by Supercritical Carbon Dioxide Deposition

BAYRAKÇEKEN YURTCAN A., DAŞ E., BOZKURT G., MEMİOĞLU F.

XIth European Congress on Catalysis (Europacat XI), Lyon, France, 1 - 06 September 2013, pp.1

XXXIII. Polypyrrole/Carbon Supported Platinum Catalysts For PEM Fuel Cells

Bayrakceken Yurtcan A., DAŞ E., BOZKURT G., MEMİOĞLU F.

The Sixth International Exergy-Energy And Environment Symposium, 1 - 04 July 2013, pp.716-720

XXXIV. Comparison of Two Different Conduction Polymer/Carbon Composites as Support Material for Pt Nanoparticles

DAŞ E., BOZKURT G., MEMİOĞLU F., Bayrakceken Yurtcan A.

9th Nanoscience and Nanotechnology Conference, 24 - 28 June 2013

Supported Projects

NADAROĞLU H., HACİMÜFTÜOĞLU A., DAŞ E., BAYRAKÇEKEN YURTCAN A., BARIŞ Ö., GÜR E., ÇOMAKLI Ö., KARAKAN M., ERTUĞRUL M., EFEOĞLU H., et al., Project Supported by Higher Education Institutions, World Congress on Applied Nanotechnology 2021, 2021 - 2022

Bayrakceken Yurtcan A., TUBITAK Project, Grafen Esaslı Üstün Nitelikli Gaz Difüzyon Elektrotlarının Pem Yakıt Pili Uygulamaları İçin Geliştirilmesi, 2015 - 2018

BAYRAKÇEKEN YURTCAN A., TUBITAK Project, PEM yakıt pillerinde su ve ısı yönetiminin iyileştirilmesi için hidroforik nanoparçacıklar ile yüksek performanslı ve dayanıklı yakıt pili bileşenlerinin geliştirilmesi, 2013 - 2016

Activities in Scientific Journals

JOURNAL OF ANATOLIAN PHYSICS AND ASTRONOMY, Assistant Editor/Section Editor, 2020 - Continues

Scientific Refereeing

NANO, SCI Journal, April 2024

OPTİK, SCI Journal, March 2024

CURRENT NANOSCIENCE, SCI Journal, March 2024

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, January 2024

FULLERENES NANOTUBES AND CARBON NANOSTRUCTURES, Journal Indexed in SCI-E, November 2023

JOURNAL OF APPLIED ELECTROCHEMISTRY, Journal Indexed in SCI-E, August 2023

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, Journal Indexed in SCI-E, August 2023

RENEWABLE AND SUSTAINABLE ENERGY REVIEWS, Journal Indexed in SCI-E, June 2023

THIN SOLID FILMS, Journal Indexed in SCI-E, June 2023
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, April 2023
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, Journal Indexed in SCI-E, February 2023
MATERIALS SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, January 2023
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, December 2022
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, SCI Journal, December 2020
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SCI-E, October 2019
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, SCI Journal, November 2018
Energy Sources, Part A: Recovery, Utilization, and Environmental Effects , SCI Journal, June 2018

Tasks In Event Organizations

Vangölü S. Y., Kadioğlu Y., Mavi A., Çetin M., Alanyalıoğlu M., Ceyhun S. B., Ekin D., Erat M., Karacalı T., Öznülür Özer T., et al., World Congress on Applied Nanotechnology, Scientific Congress, Erzurum, Turkey, Kasım 2021

Metrics

Publication: 57
Citation (WoS): 360
Citation (Scopus): 392
H-Index (WoS): 10
H-Index (Scopus): 11

Congress and Symposium Activities

Karadeniz 12th International Conference on Applied Science, Attendee, Rize, Turkey, 2023
3rd International 5 Ocak Congress on Applied Sciences, Attendee, Adana, Turkey, 2022
International Congress on Scientific Advances (ICONSAD 2021), Attendee, Ankara, Turkey, 2021
2nd International Congress on Semiconductor Materials & Devices, Attendee, Ardahan, Turkey, 2018
2nd International Symposium on Materials for Energy Storage and Conversion, Attendee, Nevşehir, Turkey, 2017
4. Ulusal Uygulamalı Elektrokimya Yaz Okulu ve Çalıştayı, Attendee, Manisa, Turkey, 2016
NCC6-6th Catalysis Conference, Attendee, Bursa, Turkey, 2016
International Physics Conference, Attendee, Erzurum, Turkey, 2016
4th Nano Today Conference, Attendee, Dubai, United Arab Emirates, 2015
International Symposium on Materials for Energy Storage and Conversion, Attendee, Ankara, Turkey, 2015
2nd Global Conference on Energy, Soil, Water, Air and Environment, Attendee, Dubai, United Arab Emirates, 2014
11. Ulusal Kimya Mühendisliği Kongresi, Attendee, Eskişehir, Turkey, 2014
10th Nanoscience and Nanotechnology Conference, Attendee, İstanbul, Turkey, 2014
Clean Environment & Clean Energy Seminar, Attendee, Cordoba, Spain, 2013
9th Nanoscience and Nanotechnology Conference, Attendee, Erzurum, Turkey, 2013

Awards

DAŞ E., Yayın Teşvik, Tübitak, September 2017
DAŞ E., Yayın Teşvik, Tübitak, October 2016
ÖZTÜRK A., DAŞ E., En İyi Poster Ödülü, International Symposium on Materials for Energy Storage and Conversion (mESC-IS 2015), September 2015
DAŞ E., Tübitak Öncelikli Alanlara Yönelik Yurt İçi Yüksek Lisans Bursu, Tübitak, January 2014