

## Assoc. Prof. AYŞE KÜÇÜKARSLAN

### Personal Information

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### Education Information

Doctorate, Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, Turkey 1997 - 2003

Postgraduate, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, Turkey 1992 - 1996

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1988 - 1992

### Dissertations

Doctorate, "The Effects of omega-rho Mixing in Radiative Vector Meson Decays", Middle East Technical University, Fen Bilimleri Enstitüsü, Fizik, 2003

Postgraduate, "Nötrinoların Özellikleri", Karadeniz Technical University, Fen Bilimleri Enstitüsü, Fizik Bölümü, 1996

### Research Areas

Physics, Basic Particles and Areas, General Theory of Particles and Fields, Properties of special particles, Special reactions and phenomenology, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2016 - Continues

Assistant Professor, Canakkale Onsekiz Mart University, Fen Edebiyat Fakültesi, Fizik, 2005 - 2016

Medical Doctor, Middle East Technical University, Fen Edebiyat Fakültesi, Fizik Bölümü, 2004 - 2005

Medical Doctor, Baskent University, Eğitim Fakültesi, Bilgisayar Ve Öğretim Teknolojileri Eğitimi Bölümü, 2003 - 2004

### Advising Theses

KÜÇÜKARSLAN A., "Üç Çeşni Etkin Alan Teorisinde Mezon-Baryon Çiftlenim Sabitleri", Doctorate, Y.ÜNAL(Student), 2014

KÜÇÜKARSLAN A., "İzovektör Aksiyel Vektör Oktet-Decuplet Geçiş Yapı Faktörlerinin Hesaplanması", Doctorate, U.ÖZDEM(Student), 2013

KÜÇÜKARSLAN A., "Aksiyel Vektör Mezonların  $V_p$  ve  $P_{\Gamma}$ 'ya Bozunması", Postgraduate, Ö.ÖZTÜRK(Student), 2013

KÜÇÜKARSLAN A., "Gammastar  $N$ to  $\Delta$  Geçiş Form Faktörleri için Işık Konisi Toplam Kuralları", devam ediyor., Postgraduate, Z.BAĞIRIR(Student), 2012

KÜÇÜKARSLAN A., "Rhotopi  $\rho$ gamma Bozunumuna Farklı Katkıların İncelenmesi", Postgraduate, E.AÇIKSÖZ(Student), 2011

KÜÇÜKARSLAN A., "Fenomenolojik Yaklaşımda  $\rho$ gamma Bozunumu", Postgraduate, Y.ÜNAL(Student), 2010

KÜÇÜKARSLAN A., "gvsigmatamma Çiftkenim Sabitlerinin KRD Toplam Kurallarında İncelenmesi", Postgraduate, U.ÖZDEM(Student), 2010  
KÜÇÜKARSLAN A., "İki Cisim Radyatif Vector Mezon Bozunumları", Postgraduate, C.ÖZER(Student), 2008

## Jury Memberships

Post Graduate, Tez Savunma Jüri Üyeliği, Dokuz Eylül Üniversitesi, November, 2015  
Post Graduate, Tez Savunma Jüri Üyeliği, Çanakkale Onsekiz Mart Üniversitesi, September, 2014  
Doctorate, Tez Savunma Jüri Üyeliği, Çanakkale Onsekiz Mart Üniversitesi, February, 2012  
Post Graduate, Tez Savunma Jüri Üyeliği, Çanakkale Onsekiz Mart Üniversitesi, January, 2012  
Doctorate, Tez Savunma Jüri Üyeliği, Çanakkale Onsekiz Mart Üniversitesi, June, 2010  
Post Graduate, Tez Savunma Jüri Üyeliği, Çanakkale Onsekiz Mart Üniversitesi, January, 2010  
Post Graduate, Tez Savunma Jüri Üyeliği, Orta Doğu Teknik Üniversitesi, September, 2008  
Post Graduate, Tez Savunma Jüri Üyeliği, Orta Doğu Teknik Üniversitesi, July, 2007  
Post Graduate, Tez Savunma Jüri Üyeliği, Orta Doğu Teknik Üniversitesi, July, 2007

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Optimization of chemically sprayed ZnS films by Mn doping**  
DEMİRSELÇUK B., Kus E., KÜÇÜKARSLAN A., Sarica E., AKYÜZ İ., BİLGİN V.  
Physica B: Condensed Matter, vol.622, 2021 (Journal Indexed in SCI Expanded)
- II. **Ultrasonically sprayed cobalt oxide thin films: Enhancing of some physical properties by nickel doping**  
Kus E., KÜÇÜKARSLAN A., DEMİRSELÇUK B., Sarica E., AKYÜZ İ., BİLGİN V.  
Materials Letters, vol.297, 2021 (Journal Indexed in SCI Expanded)
- III. **Improvement of structural, optical and magnetic properties of cobalt oxide thin films by doping with iron**  
KÜÇÜKARSLAN A., Kus E., Sarica E., AKYÜZ İ., BİLGİN V., DEMİRSELÇUK B.  
APPLIED PHYSICS A-MATERIALS SCIENCE & PROCESSING, vol.127, no.7, 2021 (Journal Indexed in SCI)
- IV. **Contribution of the  $a(1)$  meson to the axial nucleon-to-delta transition form factors**  
Uenal Y., Kucuekarslan A., Scherer S.  
PHYSICAL REVIEW D, vol.99, no.1, 2019 (Journal Indexed in SCI)
- V. **Mass and width of the Delta(1232) resonance using complex-mass renormalization**  
Bauer T., Uenal Y., Kucukarslan A., Scherer S.  
PHYSICAL REVIEW C, vol.96, no.2, 2017 (Journal Indexed in SCI)
- VI. **Axial vector transition form factors of  $N \rightarrow \Delta$  in QCD**  
Kucukarslan A., Ozdem U., Ozpineci A.  
NUCLEAR PHYSICS B, vol.913, pp.132-150, 2016 (Journal Indexed in SCI)
- VII. **Tensor form factors of the octet hyperons in QCD**  
Kucukarslan A., Ozdem U., Ozpineci A.  
PHYSICAL REVIEW D, vol.94, no.9, 2016 (Journal Indexed in SCI)
- VIII. **Interaction of the vector-meson octet with the baryon octet in effective field theory**  
Uenal Y., Kucuekarslan A., Scherer S.  
PHYSICAL REVIEW C, vol.92, no.5, 2015 (Journal Indexed in SCI)
- IX. **Isovector axial vector form factors of octet-decuplet hyperon transition in QCD**  
Kucukarslan A., Ozdem U., ÖZPİNECİ A.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.42, no.1, 2015 (Journal Indexed in SCI)
- X. **Isovector axial vector and pseudoscalar transition form factors of Delta in QCD**  
Kucukarslan A., Ozdem U., ÖZPİNECİ A.

- PHYSICAL REVIEW D, vol.90, no.5, 2014 (Journal Indexed in SCI)
- XI. **The behavior of the strange quark matter in the FRW universes**  
YILMAZ İ., KÜÇÜKARSLAN A., ÖZDER S.  
INTERNATIONAL JOURNAL OF MODERN PHYSICS A, vol.22, no.12, pp.2283-2291, 2007 (Journal Indexed in SCI)
- XII. **omega-phi mixing in chiral perturbation theory**  
Kucukarslan A., Meissner U.  
MODERN PHYSICS LETTERS A, vol.21, no.18, pp.1423-1430, 2006 (Journal Indexed in SCI)
- XIII. **Different contributions in omega -> pi(0)eta gamma and rho -> pi(0)eta gamma decays**  
Kucukarslan A., Solmaz S.  
PHYSICAL REVIEW D, vol.70, no.5, 2004 (Journal Indexed in SCI)
- XIV. **Vector meson dominance, chiral loops, sigma meson, and omega-rho mixing in omega -> pi(0)pi(0)gamma decay**  
Gokalp A., Kucukarslan A., Yilmaz O.  
PHYSICAL REVIEW D, vol.67, no.7, 2003 (Journal Indexed in SCI)
- XV. **Scalar a(0)(980) meson in phi -> pi(0)eta gamma decay**  
Gokalp A., Kucukarslan A., Solmaz S., Yilmaz O.  
JOURNAL OF PHYSICS G-NUCLEAR AND PARTICLE PHYSICS, vol.28, no.11, pp.2783-2793, 2002 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Scalar f0 980 meson Effect in Radiative phi pipluspiminusgamma Decay**  
KÜÇÜKARSLAN A., KERMAN S.  
Cornell University Libraray, arXiv.org, arXiv:hep-ph/0404076, 2004 (Non-Refreed Journal)
- II. **Scalar Meson Effects in Radiative phi pi0etagama Decay**  
GÖKALP A., KÜÇÜKARSLAN A., KERMAN S., YILMAZ O.  
Eurasia Nuclear Bulletin, vol.1, pp.55-60, 2002 (National Non-Refereed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **SnS Thin Films Deposited By Ultrasonic Spray Pyrolysis: Structural, Optical And Electrical Analyzes**  
Sarıca E., Güneş İ., Küçükarslan A., Bilgin V.  
Turkish Physical Society 36th International Physical Congress (TPS-36), İstanbul, Turkey, 1 - 05 September 2020, pp.87
- II. **SnS Thin Films Deposited By Ultrasonic Spray Pyrolysis: Structural, Optical And Electrical Analyzes**  
Sarıca E., Güneş İ., Küçükarslan A., Bilgin V.  
Turkish Physical Society 34th International Physical Congress (TPS-36), Muğla, Turkey, 1 - 05 September 2020, pp.87
- III. **CoO:Ni Thin Films Grown by Ultrasonic Spray Pyrolysis:Electrical, Structural and Magnetic Properties**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., DEMİRSELÇUK B., AKYUZ I.  
6th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.129
- IV. **CoO:Ni Thin Films Grown by Ultrasonic Spray Pyrolysis:Electrical, Structural and Magnetic Properties**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., DEMİRSELÇUK B., AKYUZ I.  
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- V. **CoO:Ni Thin Films Grown by Ultrasonic Spray Pyrolysis:Electrical, Structural and Magnetic**

## Properties

KUS E., KÜÇÜKARSLAN A., BİLGİN V., DEMİRSELÇUK B., AKYUZ I.

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- VI. **The Effect of Fe Doping on Electrical, Morphological and Magnetic Properties of Cobalt Oxide Thin Films**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., TİRYAKİ E., AKYUZ I.  
6th International Conference on Materials Science and Nanotechnology for Next Generation (MSNG2019), Niğde, Turkey, 16 - 18 October 2019, pp.209
- VII. **The Effect of Fe Doping on Electrical, Morphological and Magnetic Properties of Cobalt Oxide Thin Films**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., TİRYAKİ E., AKYUZ I.  
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- VIII. **Surface, Optical and Electrical Properties of Sn<sub>1</sub>-XPb<sub>x</sub>S Thin Films**  
GÜNEŞ İ., SARICA E., KÜÇÜKARSLAN A., BİLGİN V.  
Turkish Physical Society 35th International Physical Congress (TPS-35), Muğla, Turkey, 4 - 08 September 2019, pp.218
- IX. **SURFACE, OPTICAL AND ELECTRICAL PROPERTIES OF Sn<sub>1</sub>-xPb<sub>x</sub>S THIN FILMS**  
GÜNEŞ İ., SARICA E., KÜÇÜKARSLAN A., BİLGİN V.  
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, pp.218
- X. **Effect of Substrate Temperature on the Physical Properties of NiO Thin Films**  
SARICA E., GÜNEŞ İ., KÜÇÜKARSLAN A., BİLGİN V.  
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- XI. **Effect of Substrate Temperature on the Physical Properties of NiO Thin Films**  
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Turkish Physical Society 35th International Physical Congress (TPS-35), Muğla, Turkey, 4 - 08 September 2019, pp.195
- XII. **PREPARATION AND CHARACTERIZATION OF Fe DOPING CoO THIN FILMS**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., TİRYAKİ E., AKYUZ I.  
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, pp.209
- XIII. **OPTICAL AND MORPHOLOGICAL STUDIES OF CoO:Ni THIN FILMS GROWN BY ULTRASONIC SPRAY PYROLYSIS**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., DEMİRSELÇUK B., AKYUZ I.  
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019, pp.207
- XIV. **OPTICAL AND MORPHOLOGICAL STUDIES OF CoO:Ni THIN FILMS GROWN BY ULTRASONIC SPRAY PYROLYSIS**  
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- XV. **Surface, Optical and Electrical Properties of Sn<sub>1</sub>-XPb<sub>x</sub>S Thin Films**  
GÜNEŞ İ., SARICA E., KÜÇÜKARSLAN A., BİLGİN V.  
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- XVI. **EFFECT OF SUBSTRATE TEMPERATURE ON THE PHYSICAL PROPERTIES OF NiO THIN FILMS**  
SARICA E., GÜNEŞ İ., KÜÇÜKARSLAN A., BİLGİN V.  
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019,

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- XVII. **PREPARATION AND CHARACTERIZATION OF Fe DOPING CoO THIN FILMS**  
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TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019,  
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- XVIII. **OPTICAL AND MORPHOLOGICAL STUDIES OF CoO:Ni THIN FILMS GROWN BY ULTRASONIC SPRAY PYROLYSIS**  
KUS E., KÜÇÜKARSLAN A., BİLGİN V., DEMİRSELÇUK B., AKYUZ I.  
TURKISH PHYSICAL SOCIETY 35TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Turkey, 4 - 08 September 2019,  
pp.207
- XIX. **CHARACTERIZATION OF ULTRASONIC SPRAY PYROLYSED ZnO AND CdO THIN FILMS FOR PV SOLAR CELLS APPLICATIONS**  
BİLGİN V., Sarıca E., KÜÇÜKARSLAN A., Kus E.  
International Conference on Photovoltaic Science and Technologies (PVCON2018), Ankara, Turkey, 4 - 06 July 2018, pp.2
- XX. **CHARACTERIZATION OF ULTRASONIC SPRAY PYROLYSED ZnO AND CdO THIN FILMS FOR PV SOLAR CELLS APPLICATIONS**  
BİLGİN V., Sarıca E., KÜÇÜKARSLAN A., Kus E.  
International Conference on Photovoltaic Science and Technologies (PVCON2018), Ankara, Turkey, 4 - 06 July 2018, pp.2
- XXI. **Baryon Kiral Pertürbasyon Teorisinde Nükleon-Deltanın CA5 Aksiyal Geçiş Yapı Faktörü**  
ÜNAL Y., KÜÇÜKARSLAN A.  
İstanbul Yüksek Enerji Fiziği Çalıştayı (YEFIST 2017), Turkey, 6 - 07 May 2017
- XXII. **Işık Konisi KRD Toplam Kurallarında N-D'nin Aksiyal Vektör Yapı Faktörleri**  
özdem u., KÜÇÜKARSLAN A., ÖZPİNECİ A.  
İstanbul Yüksek Enerji Fiziği Çalıştayı (YEFIST 2017), Turkey, 6 - 07 May 2017
- XXIII. **Delta Delta Isovector Axial Form Factors in QCD**  
özdem u., KÜÇÜKARSLAN A., ÖZPİNECİ A.  
The XXII International Workshop High Energy Physics and Quantum Field Theory, 24 June - 01 July 2016
- XXIV. **Isovector axial vector and pseudoscalar transition form factors of Delta in QCD**  
Ulas O., KÜÇÜKARSLAN A., ÖZPİNECİ A.  
The XXII International Workshop High Energy Physics and Quantum Field Theory, 24 June - 01 July 2015
- XXV. **Constraint Analysis for the Interaction of the Vector Meson with the baryon Octet**  
ÜNAL Y., KÜÇÜKARSLAN A., scherer s.  
DPG Conferences 2015, 01 April 2015
- XXVI. **Scalar Mesons in the Decay  $\phi \rightarrow K^0(K^0)\bar{0}\gamma$**   
ÜNAL ŞAHİN Y., KÜÇÜKARSLAN A.  
3rd International Conference on Hadron Physics (TROIA), Çanakkale, Turkey, 22 - 25 August 2011, vol.348
- XXVII. **Different Contributions of the Decay  $\rho \rightarrow \pi(0)\pi(0)\gamma$**   
ACIKSOZ E., KÜÇÜKARSLAN A.  
3rd International Conference on Hadron Physics (TROIA), Çanakkale, Turkey, 22 - 25 August 2011, vol.348
- XXVIII. **Scalar Mesons in the Decay  $\phi \rightarrow K^0\bar{0}\gamma$**   
ÜNAL Y., KÜÇÜKARSLAN A.  
3rd International Hadron Physics Conference, TROIA'11: Journal of Physics: Conference Series., Çanakkale, Turkey, 22 - 25 August 2011, vol.348, pp.12018
- XXIX. **The Effects of f2 Tensor Meson in Radiative  $\phi \rightarrow \pi^0\pi^0\gamma$  Decay**  
KÜÇÜKARSLAN A., ÜNAL Y., AÇIKSÖZ E.  
28th International Physics Congress, Türk Fizik Derneği (TFD28), Bodrum-Muğla, Turkey, 6 - 09 September 2011
- XXX. **Radiative Decay  $\rho^0 \rightarrow \pi^+\pi^-\gamma$  Including sigma meson Effects and the Coupling Constant  $g_{\rho\sigma\gamma}$**   
AÇIKSÖZ E., KÜÇÜKARSLAN A.

- 28th International Physics Congress, Türk Fizik Derneği (TFD28), Bodrum-Muğla, Turkey, 6 - 09 September 2011
- XXXI. **Investigate the Decays  $V \rightarrow P \gamma \rightarrow S \gamma \rightarrow A \gamma$**   
KÜÇÜKARSLAN A., Ozturk O.  
28th International Physics Congress, Türk Fizik Derneği (TFD28), Bodrum-Muğla, Turkey, 6 - 09 September 2011
- XXXII. **The  $\phi \rightarrow \rho^0 \gamma$  Decay in Phenomenological Approach**  
ÜNAL Y., KÜÇÜKARSLAN A.  
28th International Physics Congress, Türk Fizik Derneği (TFD28), Bodrum-Muğla, Turkey, 6 - 09 September 2011
- XXXIII. **Scalar  $\sigma$  Meson in Radiative  $\rho^0 \rightarrow \pi^0 \gamma$  Decay**  
KÜÇÜKARSLAN A., AÇIKSÖZ E.  
International Congress on Advances in Applied Physics and Materials Science, APMAS 2011., Antalya, Turkey, 12 - 15 May 2011
- XXXIV. **Different Contributions of the Decay  $\phi \rightarrow \rho^0 \gamma$**   
KÜÇÜKARSLAN A., ÜNAL Y.  
International Congress on Advances in Applied Physics and Materials Science, APMAS, Book Series: AIP Conference Proceedings, Antalya, Turkey, 12 - 15 May 2011, vol.1400, pp.186-189
- XXXV. **Radiative  $\phi \rightarrow \rho^0 \gamma$  Vertex in QCD Sum Rules and Phenomenological Approach**  
KÜÇÜKARSLAN A., Ozdem U., ÜNAL ŞAHİN Y.  
1st International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 12 - 15 May 2011, vol.1400, pp.190-193
- XXXVI. **Different Contributions of the  $\phi \rightarrow K^0 \bar{K}^0 \gamma$  Decay**  
KÜÇÜKARSLAN A., ÜNAL ŞAHİN Y.  
1st International Congress on Advances in Applied Physics and Materials Science (APMAS), Antalya, Turkey, 12 - 15 May 2011, vol.1400, pp.186-189
- XXXVII. **Different Contributions of the  $\rho^0 \rightarrow \pi^0 \gamma$**   
AÇIKSÖZ E., KÜÇÜKARSLAN A.  
27th International Physics Congress, Türk Fizik Derneği (TFD27), İstanbul, Turkey, 14 - 17 September 2010
- XXXVIII. **The Coupling Constants  $g_{\rho^0 \gamma}$  and  $g_{\omega \gamma}$  in QCD Sum Rules**  
Ozdem U., KÜÇÜKARSLAN A.  
27th International Physics Congress, Türk Fizik Derneği (TFD27), İstanbul, Turkey, 14 - 17 September 2010
- XXXIX.  **$g_{\omega \gamma}$  and  $g_{\rho^0 \gamma}$  Coupling Constants in QCD Sum Rules**  
KÜÇÜKARSLAN A., Ozdem U.  
27th International Physics Congress, Türk Fizik Derneği (TFD27), İstanbul, Turkey, 14 - 17 September 2010
- XL. **Different Contributions of the  $\omega \rightarrow \pi^0 \gamma$  Decay**  
AKIN KARA D., KÜÇÜKARSLAN A.  
27th International Physics Congress, Türk Fizik Derneği (TFD27), İstanbul, Turkey, 14 - 17 September 2010
- XLI.  **$\phi \rightarrow K^0 \bar{K}^0 \gamma$  Decay in Phenomenological Approach**  
ÜNAL Y., KÜÇÜKARSLAN A.  
27th International Physics Congress, Türk Fizik Derneği (TFD27), İstanbul, Turkey, 14 - 17 September 2010
- XLII. **Analysis of the Effects of the  $\rho^0 \omega$  Mixing in  $\rho^0$  and  $\omega$  Mesons**  
KÜÇÜKARSLAN A.  
Türk Fizik Derneği 22. Fizik Kongresi (TFD22), Bodrum-Muğla, Turkey, 14 - 17 September 2004
- XLIII. **Işınal  $\omega \rightarrow \pi^0 \gamma$  Bozunmasında VMD Chiral Halka Sigma mezon ve  $\omega \rho^0$  Karışımı Katkıları**  
KÜÇÜKARSLAN A.  
VIII. Ulusal Nükleer Bilimler ve Teknolojileri Kongresi, NBT2003, Erciyes Üniversitesi, Kayseri, Turkey, 15 - 17 October 2003

## Supported Projects

KÜÇÜKARSLAN A., ALDATMAZ T., BİLGİN V., SARICA E., GÜNEŞ İ., Project Supported by Higher Education Institutions, Ag

Katkısı ile SnS Filmlerinin Fotovoltaik Özelliklerinin İyileştirilmesi, 2020 - Continues  
DEMİRSELÇUK B., KÜÇÜKARSLAN A., BİLGİN V., GÜNEŞ İ., KUŞ E., SARICA E., Project Supported by Higher Education Institutions, Fe ve Co İkilili Katkılı CdO İnce Filmlerinin Sprey Piroliz İle Büyütülmesi ve Karakterizasyonu, 2020 - Continues  
ÖZDER S., KÜÇÜKARSLAN A., GÜNEŞ İ., SARICA E., Project Supported by Higher Education Institutions, Fotovoltaik Uygulamalar için In<sub>2</sub>O<sub>3</sub>:Sn ve SnO<sub>2</sub>:F İnce Filmleri: Üretilmesi ve Karakterizasyonu, 2020 - Continues  
KÜÇÜKARSLAN A., BİLGİN V., TUBITAK Project, ELEKTROSTATİK-ULTRASONİK SPRAY KAPLAMA SİSTEMİNİN TİCARİ PROTOTİP TASARIMI VE İMALATI, 2019 - Continues  
KÜÇÜKARSLAN A., Project Supported by Other Official Institutions, Ultrasonik Sprey Pyrolysis ile Ticari Amaçlı İndiyum Kalay Oksit (ITO) Kaplı camların Üretimi, 2018 - Continues  
BİLGİN V., GÜNEŞ İ., KÜÇÜKARSLAN A., SARICA E., Project Supported by Higher Education Institutions, n-Si/p-SnS Heteroyapıların Ultrasonik Sprey Piroliz Tekniği ile Üretilmesi ve Karakterizasyonu, 2020 - 2021  
DEMİRSELÇUK B., BİLGİN V., KÜÇÜKARSLAN A., Kuş E., Project Supported by Higher Education Institutions, Spintronik Uygulamalar için ZnS:X (X=Ni,Mn) Yarıiletken İnce Filmlerinin Büyütülmesi ve Karakterizasyonu, 2019 - 2020  
KÜÇÜKARSLAN A., ÜNAL Y., Project Supported by Higher Education Institutions, Chiral Pertürbasyon Teorisinde Sözdeskalar Yapı Faktörlerinin Hesaplanması, 2019 - 2020  
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