

# Prof. MUHAMMET ERKAN KÖSE

## Personal Information

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## International Researcher IDs

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ScopusID: 57216046922

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## Education Information

Doctorate, University of Florida, College Of Arts And Science, Department Of Chemistry, United States Of America 2001 - 2005

Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Chemistry, Turkey 1999 - 2001

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Chemistry, Turkey 1995 - 1999

## Foreign Languages

English, C1 Advanced

## Dissertations

Doctorate, Multi-Luminophore Coatings for Pressure Sensitive Paint Applications, University Of Florida, College Of Arts And Science, Department Of Chemistry, 2005

Postgraduate, Electronic structure analysis and density functional study of an alternating donor/acceptor polymer, Ihsan Dogramaci Bilkent Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2001

## Research Areas

Chemistry, Physical Chemistry, Computational Chemistry, Conductive Polymers, Polymeric Films, Spectroscopy, Natural Sciences

## Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2024 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Kimya, 2019 - 2024

Associate Professor, Gebze Technical University, Institute Of Nanotechnology, Nanoteknoloji Enstitüsü, 2015 - 2016

Assistant Professor, North Dakota State University, College Of Science And Mathematics, Department Of Chemistry And Biochemistry, 2009 - 2012

## Courses

Kimyaçılar için Matematik, Undergraduate, 2023 - 2024

Kimya, Undergraduate, 2023 - 2024

Kimyasal Kinetik, Undergraduate, 2022 - 2023

Organik Elektronik, Doctorate, 2022 - 2023

## Advising Theses

Köse M. E., QUANTUM MECHANICAL INVESTIGATION OF KETO-ENOL ISOMERISATION OF SERINE, Postgraduate, S.ATMACA(Student), 2023

KÖSE M. E., Exciton Diffusion, Transport, and Localization in Conjugated Polymers, Doctorate, J.Bjorgaard(Student), 2013

KÖSE M. E., SUPRAMOLECULAR FUNCTIONALIZATION OF SINGLE-WALLED CARBON NANOTUBES, Postgraduate, B.Yilmaz(Student), 2013

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Mono- and Bichromophores Formed from Perylene Monoimide Diesters: Competition between Intramolecular Charge Transfer and Intermolecular Singlet Exciton Fission**  
Gültekin D. D., Şen S., ELMALI A., KARATAY A., KÖSE M. E., Harriman A., BOZDEMİR Ö. A.  
Journal of Physical Chemistry A, vol.128, no.44, pp.9614-9626, 2024 (SCI-Expanded)
- II. **Activation Energies of Diffusion for Relaxed Singlet and Triplet Excitons over Conjugated Polymer Chains**  
Erzurumluoglu Z., Kose E., Kose M. N., KÖSE M. E.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.128, no.13, pp.5621-5631, 2024 (SCI-Expanded)
- III. **Thermally activated motion of cold excitons in conjugated polymers**  
KÖSE M. E., Kose E.  
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, vol.123, no.10, 2023 (SCI-Expanded)
- IV. **Estimation of Excited-State Geometries of Benzene and Fluorobenzene through Vibronic Analyses of Absorption Spectra**  
KÖSE M. E.  
ACS Omega, vol.7, no.36, pp.32764-32774, 2022 (SCI-Expanded)
- V. **How to Predict Excited State Geometry by Using Empirical Parameters Obtained from Franck-Condon Analysis of Optical Spectrum**  
Köse M. E.  
CHEMPHYSICHEM, vol.22, no.20, pp.2078-2092, 2021 (SCI-Expanded)
- VI. **Prediction of Internal Reorganization Energy in Photoinduced Electron Transfer Processes of Molecular Dyads.**  
Köse M. E., Schanze K.  
The journal of physical chemistry. A, vol.124, pp.9478-9486, 2020 (SCI-Expanded)
- VII. **Precursor vapor deposited perovskite solar cells with smooth absorber layer**  
Coşkun F. M., Değirmenci F., KÖSE M. E.  
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.107, 2020 (SCI-Expanded)
- VIII. **Theoretical Estimation of Donor Strength of Common Conjugated Units for Organic Electronics**  
KÖSE M. E.  
JOURNAL OF PHYSICAL CHEMISTRY A, vol.123, no.26, pp.5566-5573, 2019 (SCI-Expanded)
- IX. **Highly sensitive and reusable mercury (II) sensor based on fluorescence quenching of pyrene moiety in polyacrylamide-based cryogel**  
Sahin Z. M., Alimli D., Tonta M. M., Kose M. E., YILMAZ F.

SENSORS AND ACTUATORS B-CHEMICAL, vol.242, pp.362-368, 2017 (SCI-Expanded)

- X. **Pyrophosphate Sensor Based on Principal Component Analysis of Conjugated Polyelectrolyte Fluorescence**  
YANG J., ACHARYA R., ZHU X., Kose M. E., SCHANZE K. S.  
ACS OMEGA, vol.1, no.4, pp.648-655, 2016 (SCI-Expanded)
- XI. **Impact of solution casting temperature on power conversion efficiencies of bulk heterojunction organic solar cells**  
ANDERSON T. E., Kose M. E.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.318, pp.51-55, 2016 (SCI-Expanded)
- XII. **Synthesis and electrical characterization of Graphene Oxide films**  
YASIN M., TAUQEER T., ZAIDI S. M. H., San S. E., MAHMOOD A., Kose M. E., Canimkurbey B., OKUTAN M.  
THIN SOLID FILMS, vol.590, pp.118-123, 2015 (SCI-Expanded)
- XIII. **Simulations of singlet exciton diffusion in organic semiconductors: a review**  
BJORGAARD J. A., Kose M. E.  
RSC ADVANCES, vol.5, no.11, pp.8432-8445, 2015 (SCI-Expanded)
- XIV. **Simulations of Exciton Diffusion and Trapping in Semicrystalline Morphologies of Poly(3-hexylthiophene)**  
BJORGAARD J. A., Kose M. E.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.118, no.11, pp.5756-5761, 2014 (SCI-Expanded)
- XV. **Intramolecular Triplet Energy Transfer in Anthracene-Based Platinum Acetylide Oligomers**  
Li Y., Kose M. E., Schanze K. S.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.117, no.30, pp.9025-9033, 2013 (SCI-Expanded)
- XVI. **Amplified quenching of conjugated polymer nanoparticle photoluminescence for robust measurement of exciton diffusion length**  
BJORGAARD J. A., Kose M. E.  
JOURNAL OF APPLIED PHYSICS, vol.113, no.20, 2013 (SCI-Expanded)
- XVII. **Theoretical Study of Torsional Disorder in Poly(3-alkylthiophene) Single Chains: Intramolecular Charge-Transfer Character and Implications for Photovoltaic Properties**  
BJORGAARD J. A., Kose M. E.  
JOURNAL OF PHYSICAL CHEMISTRY A, vol.117, no.18, pp.3869-3876, 2013 (SCI-Expanded)
- XVIII. **Effective Solubilization of Single-Walled Carbon Nanotubes in THF Using PEGylated Corannulene Dispersant**  
YILMAZ B., BJORGAARD J., COLBERT C. L., Siegel J. S., Kose M. E.  
ACS APPLIED MATERIALS & INTERFACES, vol.5, no.9, pp.3500-3503, 2013 (SCI-Expanded)
- XIX. **Morphology and dispersion of polycarbazole wrapped carbon nanotubes**  
MAYO M. L., HOGLE D., YILMAZ B., Kose M. E., KILINA S.  
RSC ADVANCES, vol.3, no.43, pp.20492-20502, 2013 (SCI-Expanded)
- XX. **Evaluation of Acceptor Strength in Thiophene Coupled Donor-Acceptor Chromophores for Optimal Design of Organic Photovoltaic Materials**  
Kose M. E.  
JOURNAL OF PHYSICAL CHEMISTRY A, vol.116, no.51, pp.12503-12509, 2012 (SCI-Expanded)
- XXI. **Quinoxaline-Based Semiconducting Polymers: Effect of Fluorination on the Photophysical, Thermal, and Charge Transport Properties**  
IYER A., BJORGAARD J., ANDERSON T., Kose M. E.  
MACROMOLECULES, vol.45, no.16, pp.6380-6389, 2012 (SCI-Expanded)
- XXII. **Synthesis, photophysics, and photovoltaic properties of low-band gap conjugated polymers based on thieno[3,4-c]pyrrole-4,6-dione: a combined experimental and computational study**  
LIN Z., BJORGAARD J., YAVUZ A. G., IYER A., Kose M. E.  
RSC ADVANCES, vol.2, no.2, pp.642-651, 2012 (SCI-Expanded)
- XXIII. **An activated scheme for resonance energy transfer in conjugated materials**  
Kose M. E.

- JOURNAL OF CHEMICAL PHYSICS, vol.135, no.24, 2011 (SCI-Expanded)
- XXIV. **A polythiophene derivative bearing TEMPO as a cathode material for rechargeable batteries**  
Aydin M., Esat B., Kilic C., Koese M. E., Ata A., Yilmaz F.  
EUROPEAN POLYMER JOURNAL, vol.47, no.12, pp.2283-2294, 2011 (SCI-Expanded)
- XXV. **Low Band Gap Star-Shaped Molecules Based on Benzothia(oxa)diazole for Organic Photovoltaics**  
LIN Z., BJORGAARD J., YAVUZ A. G., Koese M. E.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.115, no.30, pp.15097-15108, 2011 (SCI-Expanded)
- XXVI. **Evaluation of Excitonic Coupling and Charge Transport Integrals in P3HT Nanocrystal**  
Koese M. E.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.115, no.26, pp.13076-13082, 2011 (SCI-Expanded)
- XXVII. **Theoretical prediction of ionization/oxidation potentials in conjugated polymers**  
Koese M. E.  
THEORETICAL CHEMISTRY ACCOUNTS, vol.128, no.2, pp.157-164, 2011 (SCI-Expanded)
- XXVIII. **Conjugated Thiophene Dendrimer with an Electron-Withdrawing Core and Electron-Rich Dendrons: How the Molecular Structure Affects the Morphology and Performance of Dendrimer:Fullerene Photovoltaic Devices**  
Rance W. L., RUPERT B. L., MITCHELL W. J., Koese M. E., GINLEY D. S., Shaheen S. E., RUMBLES G., KOPIDAKIS N.  
JOURNAL OF PHYSICAL CHEMISTRY C, vol.114, no.50, pp.22269-22276, 2010 (SCI-Expanded)
- XXIX. **Charge Transport Simulations in Conjugated Dendrimers**  
Kose M. E., LONG H., KIM K., GRAF P., GINLEY D.  
JOURNAL OF PHYSICAL CHEMISTRY A, vol.114, no.12, pp.4388-4393, 2010 (SCI-Expanded)
- XXX. **Exciton Migration in Conjugated Dendrimers: A Joint Experimental and Theoretical Study**  
Kose M. E., GRAF P., KOPIDAKIS N., Shaheen S. E., KIM K., RUMBLES G.  
CHEMPHYSICHEM, vol.10, no.18, pp.3285-3294, 2009 (SCI-Expanded)
- XXXI. **Structure-Dependent Photophysics of First-Generation Phenyl-Cored Thiophene Dendrimers**  
MITCHELL W. J., FERGUSON A. J., Kose M. E., RUPERT B. L., GINLEY D. S., RUMBLES G., SHAHEEN S. E., KOPIDAKIS N.  
CHEMISTRY OF MATERIALS, vol.21, no.2, pp.287-297, 2009 (SCI-Expanded)
- XXXII. **Low-bandgap thiophene dendrimers for improved light harvesting**  
RUPERT B. L., MITCHELL W. J., FERGUSON A. J., Koese M. E., RANCE W. L., RUMBLES G., GINLEY D. S., SHAHEEN S. E., KOPIDAKIS N.  
JOURNAL OF MATERIALS CHEMISTRY, vol.19, no.30, pp.5311-5324, 2009 (SCI-Expanded)
- XXXIII. **Reversible Switching between Molecular and Charge Transfer Phases in a Liquid Crystalline Organic Semiconductor**  
GREGG B. A., Kose M. E.  
CHEMISTRY OF MATERIALS, vol.20, no.16, pp.5235-5239, 2008 (SCI-Expanded)
- XXXIV. **Theoretical studies on conjugated phenyl-cored thiophene dendrimers for photovoltaic applications**  
Koese M. E., MITCHELL W. J., KOPIDAKIS N., CHANG C. H., SHAHEEN S. E., KIM K., RUMBLES G.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.129, no.46, pp.14257-14270, 2007 (SCI-Expanded)
- XXXV. **Radical ion states of platinum acetylide oligomers**  
CARDOLACCIA T., FUNSTON A. M., Kose M. E., KELLER J. M., MILLER J. R., SCHANZE K. S.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.111, no.37, pp.10871-10880, 2007 (SCI-Expanded)
- XXXVI. **Triplet excited state in platinum-acetylide oligomers: Triplet localization and effects of conformation**  
GLUSAC K., Kose M. E., JIANG H., SCHANZE K. S.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.111, no.5, pp.929-940, 2007 (SCI-Expanded)
- XXXVII. **Excited-state energy transfers in single-walled carbon nanotubes functionalized with tethered pyrenes**  
LI H., Kose M. E., QU L., LIN Y., MARTIN R. B., ZHOU B., HARRUFF B. A., ALLARD L. F., SUN Y.  
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.185, no.1, pp.94-100, 2007 (SCI-Expanded)
- XXXVIII. **Efficient quenching of photoluminescence from functionalized single-walled carbon nanotubes by nitroaromatic molecules**

- Kose M. E., HARRUFF B. A., LIN Y., VECA L. M., LU F., SUN Y.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.110, no.29, pp.14032-14034, 2006 (SCI-Expanded)
- XXXIX. **Quantum-sized carbon dots for bright and colorful photoluminescence**  
SUN Y., ZHOU B., LIN Y., WANG W., FERNANDO K. A. S., PATHAK P., MEZIANI M. J., HARRUFF B. A., WANG X., WANG H., et al.  
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.128, no.24, pp.7756-7757, 2006 (SCI-Expanded)
- XL. **Photophysics of platinum-acetylide substituted hexa-peri-hexabenzocoronenes**  
KIM K., LIU S., Kose M. E., SCHANZE K.  
INORGANIC CHEMISTRY, vol.45, no.6, pp.2509-2519, 2006 (SCI-Expanded)
- XLI. **Principal component analysis calibration method for dual-luminophore oxygen and temperature sensor films: Application to luminescence imaging**  
Kose M. E., OMAR A., VIRGIN C., CARROLL B., SCHANZE K.  
LANGMUIR, vol.21, no.20, pp.9110-9120, 2005 (SCI-Expanded)
- XLII. **Preparation and spectroscopic properties of multiluminophore luminescent oxygen and temperature sensor films**  
Kose M. E., CARROLL B., SCHANZE K.  
LANGMUIR, vol.21, no.20, pp.9121-9129, 2005 (SCI-Expanded)
- XLIII. **Morphology and oxygen sensor response of luminescent Ir-labeled poly(dimethylsiloxane)/polystyrene polymer blend films**  
Kose M. E., Crutchley R., DeRosa M., Ananthakrishnan N., Reynolds J., Schanze K.  
LANGMUIR, vol.21, no.18, pp.8255-8262, 2005 (SCI-Expanded)
- XLIV. **Solvent-induced self-assembly of a meta-linked conjugated polyelectrolyte. Helix formation, guest intercalation, and amplified quenching**  
Tan C., Pinto M., Kose M. E., Ghiviriga I., Schanze K.  
ADVANCED MATERIALS, vol.16, no.14, pp.1208-1213, 2004 (SCI-Expanded)
- XLV. **Does the donor-acceptor concept work for designing synthetic metals? 2. Theoretical investigation of copolymers of 4-(dicyanomethylene)-4H-cyclopenta[2,1-b : 3,4-b ' ]dithiophene and 3,4-(ethylenedioxy)thiophene**  
SALZNER U., Kose M. E.  
JOURNAL OF PHYSICAL CHEMISTRY B, vol.106, no.36, pp.9221-9226, 2002 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Dynamics of Hot Exciton Relaxation in Conjugated Polymer Chain**  
KOSE M. E., KOSE E., ERZURUMLUOGLU Z.  
Kocaeli Journal of Science and Engineering, vol.7, no.1, pp.1-8, 2024 (Peer-Reviewed Journal)
- II. **Principal component analysis of quantum mechanical descriptors data to reveal the pharmacological activities of oxindole derivatives**  
Köse E., Erkan Köse M. E., GÜNEŞDOĞDU SAĞDINÇ S.  
Results in Chemistry, vol.5, 2023 (ESCI)
- III. **Influence of Top Layer Composition on the Photovoltaic Parameters of P3HT:PCBM Organic Solar Cells**  
Köse M. E.  
Sakarya University Journal of Science, vol.24, no.1, pp.257-264, 2020 (Peer-Reviewed Journal)
- IV. **Phthalimide containing donor-acceptor polymers for effective dispersion of single-walled carbon nanotubes**  
Yilmaz B., Bjorgaard J., Lin Z., Kose M. E.  
ORGANIC COMMUNICATIONS, vol.8, no.3, pp.78-89, 2015 (ESCI)
- V. **Pi-conjugated dendrimers for solar-energy harvesting**  
Rupert B., Rance W., Ferguson A., KÖSE M. E., Kopidakis N., Shaheen S. E.

## Books & Book Chapters

- I. **A DUAL LUMINOPHORE PRESSURE SENSITIVE PAINT: ELIMINATING THE TEMPERATURE INTERFERENCE IN THE MEASUREMENT OF OXYGEN PARTIAL PRESSURE**  
KÖSE M. E., Bedlek-Anslow J. M., Hubner J. P., Carroll B. F., Schanze K. S.  
in: Advanced Concepts in Fluorescence Sensing: Small Molecule Sensing, Geddes, C. D., Lakowicz, J. R., Editor, Springer-Verlag , Us, pp.285-302, 2005

## Refereed Congress / Symposium Publications in Proceedings

- I. **Prediction of Activation Energies for Exciton Transport over Conjugated Polymer Chains**  
Erzurumluoğlu Z., Köse E., KÖSE M. E.  
NanoTR-17 Conference, İzmir, Turkey, 27 August 2023
- II. **Prediction of excited state geometries of molecules by using their optical spectra**  
KÖSE M. E.  
American Chemical Society Fall 2023 Meeting, San-Francisco, Costa Rica, 13 - 17 August 2023
- III. **Optik Spektrumun Franck-Condon Analizinden Elde Edilen Ampirik Parametrelerle Uyarılmış Hal Geometrilerinin Tahmin Edilmesi**  
Köse M. E.  
34.Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.67
- IV. **Temel Bileşen Analiz Yöntemiyle Oksindol Türevlerinin Farmakolojik Etkilerinin İncelenmesi**  
Köse E., Güneşdoğdu Sağdıç S., Köse M. E.  
34.Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.281
- V. **Fabrication of perovskite solar cells with smooth and pinhole-free absorber layer**  
KÖSE M. E., Coskun F. M., Degirmenci F.  
NanoTR-12, Kocaeli, Turkey, 03 June 2016, pp.92
- VI. **A novel Graphene Oxide film: Synthesis and Dielectric properties**  
Canımburbey B., San S. E., Yasin M., KÖSE M. E.  
2016 APS March Meeting, Baltimore, United States Of America, 14 March 2016, pp.1
- VII. **Facile Perovskite Film Production Method Via Precursor Vapor Deposition**  
fatih d., fatih mehmet c., KÖSE M. E.  
International Symposium on Light and Life, 14 - 16 October 2015
- VIII. **Efficient Perovskite Solar Cells With Additives in Various Concentrations Using Double Layer Architecture**  
fatih mehmet c., fatih d., KÖSE M. E., abdülmecit t.  
1st International Conference on Organic Electronic Material Technologies (OEMT'2015), 25 - 28 March 2015
- IX. **Investigating the impact of morphology and solvent temperature on P3HT: PCBM organic photovoltaic devices**  
Anderson T. E., KÖSE M. E.  
247 ACS National Meeting, Dallas, United States Of America, 16 March 2014, pp.1
- X. **Experimental and Computational Studies on Optimization of Photovoltaic Activity in Organic Solar Cells**  
KÖSE M. E.  
International Semiconductor Science & Technology Conference 2014, İstanbul, Turkey, 13 January 2014, pp.5
- XI. **The Influence of the Thickness of ZnO Buffer Layer on the Performance of the P3HT:PCBM Photovoltaic Cell**  
Tasaltın N., KÖSE M. E.

International Semiconductor Science & Technology Conference 2014, İstanbul, Turkey, 13 January 2014, pp.25

- XII. **Organic Photovoltaics**  
KÖSE M. E.  
2. Ulusal Fotonik Bilimi ve Sensör Teknolojileri Konferansı, Kocaeli, Turkey, 02 July 2013, pp.1
- XIII. **Novel Electrode Materials for Organic Batteries**  
Esat B., Bahçeci S., Aydın M., Dogan H., Ata A., KÖSE M. E.  
220th ECS meeting, Boston, United States Of America, 09 October 2011, pp.1362
- XIV. **Polyacetylene and Polythiophene Derivatives Bearing Stable Radicals for Electrode Applications in Li-Ion Batteries**  
Bahçeci S., Aydın M., Esat B., Kilic C., KÖSE M. E.  
15th International Meeting on Lithium Batteries, Montreal, Canada, 27 June 2010, pp.514
- XV. **Organic Electrodes for Organic Batteries**  
Esat B., Kilic C., Ata A., KÖSE M. E.  
217th ECS Meeting, Vancouver, Canada, 25 May 2010, pp.285
- XVI. **Energy Transfer and Charge Transport Simulations in Conjugated Dendrimers**  
KÖSE M. E.  
Functionalized Nanomaterials Conference: Bio Helps Nano, Santa Fe, United States Of America, 26 April 2010, pp.1
- XVII. **Energy Transfer and Charge Transport Simulations in Conjugated Dendrimers2**  
KÖSE M. E., Kim K., Graf P.  
2010 Materials Research Society Spring Meeting, 5 - 09 April 2010
- XVIII. **TRIPHENYLAMINE-BASED STAR-SHAPED ABSORBERS WITH TUNABLE ENERGY LEVELS FOR ORGANIC PHOTOVOLTAICS**  
Hammond S. R., Garcia A., Nardes A., Knoll E., Kose M. E., Larsen R., Kopidakis N., Owczarczyk Z., Olson D. C., Ginley D. S.  
35th IEEE Photovoltaic Specialists Conference, Hawaii, United States Of America, 20 - 25 June 2010, pp.1607-1610
- XIX. **Numerical Formulation of the Effective Medium Approximation: Illustrative Examples and Application to Organic Semiconductors**  
Graf P., KÖSE M. E., Kim K.  
2009 MRS Spring Meeting, San Francisco, United States Of America, 13 April 2009, vol.1177, no.1, pp.1177
- XX. **Theoretical studies on phenyl cored thiophene dendrimers**  
KÖSE M. E., Kim K., Shaheen S. E., Rumbles G., Kopidakis N.  
234th ACS National Meeting, Boston, United States Of America, 19 August 2007, pp.234
- XXI. **Exciton localization and delocalization in phenyl-cored thiophene dendrimers**  
KÖSE M. E., Kim K., Mitchell W. J., Kopidakis N., Rumbles G., Shaheen S. E.  
2007 APS March Meeting, Denver, United States Of America, 05 March 2007, vol.52, no.1, pp.52
- XXII. **Morphology and Charge Transport in Dendrimer-Based Organic Photovoltaic Devices**  
Shaheen S. E., Kopidakis N., Mitchell W. J., KÖSE M. E., Rance W., Ginley D., Rumbles G.  
210th ECS Meeting, Cancun, Mexico, 29 October 2006, pp.404
- XXIII. **Pressure-Sensitive Paint for acoustic pressure fluctuations**  
Virgin C. A., Carroll B. F., Cattafesta L., Schanze K. S., KÖSE M. E.  
ASME 2005 International Mechanical Engineering Congress and Exposition, Orlando, United States Of America, 05 November 2005, pp.1
- XXIV. **Principal Component Analysis of Pressure Sensitive Paint Data**  
KÖSE M. E., Carroll B. F., Schanze K. S.  
PittCon'2005, Orlando, United States Of America, 27 February 2005, pp.1

## Supported Projects

KÖSE M. E., Project Supported by Other Private Institutions, BAGEP Ödülü Projesi, 2016 - 2018

KÖSE M. E., TUBITAK Project, 230x240 Piksel RGB AMOLED Aviyonik Ekran Geliştirilmesi, 2015 - 2016

## **Memberships / Tasks in Scientific Organizations**

American Chemical Society, Member, 2006 - 2013

## **Scientific Refereeing**

JOURNAL OF APPLIED PHYSICS, SCI Journal, June 2023  
JOURNAL OF PHYSICAL CHEMISTRY C, SCI Journal, June 2023  
CHEMPHYSICHEM, SCI Journal, April 2023  
ACS OMEGA, SCI Journal, March 2023  
Applied Energy, SCI Journal, August 2016  
ACS Applied Materials & Interfaces, SCI Journal, August 2016  
The Journal of Physical Chemistry, SCI Journal, June 2016  
The Journal of Physical Chemistry, SCI Journal, March 2016  
ACS Applied Materials & Interfaces, SCI Journal, March 2016  
Journal of Electronic Packaging, SCI Journal, February 2016  
ACS Applied Materials & Interfaces, SCI Journal, August 2015  
ACS Applied Materials & Interfaces, SCI Journal, July 2015  
The Journal of Physical Chemistry, SCI Journal, June 2015  
The Journal of Physical Chemistry, SCI Journal, May 2015  
The Journal of Physical Chemistry, SCI Journal, February 2015  
Journal of the American Chemical Society, SCI Journal, November 2014  
The Journal of Physical Chemistry, SCI Journal, August 2014  
Langmuir, SCI Journal, May 2014  
ACS Applied Materials & Interfaces, SCI Journal, April 2014  
ACS Applied Materials & Interfaces, SCI Journal, May 2013  
ACS Applied Materials & Interfaces, SCI Journal, April 2013  
ACS Applied Materials & Interfaces, SCI Journal, February 2013  
The Journal of Physical Chemistry, SCI Journal, November 2012  
The Journal of Physical Chemistry, SCI Journal, October 2012  
ACS Applied Materials & Interfaces, SCI Journal, August 2012  
ACS Applied Materials & Interfaces, SCI Journal, February 2012  
ACS Applied Materials & Interfaces, SCI Journal, August 2011  
ACS Applied Materials & Interfaces, SCI Journal, June 2011  
ACS Applied Materials & Interfaces, SCI Journal, April 2011  
ACS Applied Materials & Interfaces, SCI Journal, December 2010  
The Journal of Physical Chemistry, SCI Journal, December 2010  
ACS Applied Materials & Interfaces, SCI Journal, November 2010  
Journal of the American Chemical Society, SCI Journal, October 2010  
ACS Applied Materials & Interfaces, SCI Journal, August 2010  
The Journal of Physical Chemistry, SCI Journal, August 2010  
The Journal of Physical Chemistry, SCI Journal, May 2010  
ACS Applied Materials & Interfaces, SCI Journal, March 2010  
ACS Applied Materials & Interfaces, SCI Journal, February 2010  
Chemistry of Materials, SCI Journal, December 2009  
ACS Applied Materials & Interfaces, SCI Journal, September 2009  
ACS Applied Materials & Interfaces, SCI Journal, May 2009



ACS Applied Materials & Interfaces, SCI Journal, January 2009  
Journal of the American Chemical Society, SCI Journal, January 2009  
ACS Applied Materials & Interfaces, SCI Journal, December 2008  
Journal of the American Chemical Society, SCI Journal, December 2008  
The Journal of Physical Chemistry, SCI Journal, January 2008  
Langmuir, SCI Journal, June 2007

## **Metrics**

Publication: 75  
Citation (WoS): 4969  
Citation (Scopus): 6046  
H-Index (WoS): 25  
H-Index (Scopus): 26

## **Congress and Symposium Activities**

International Semiconductor Science and Technology, Session Moderator, İstanbul, Turkey, 2014  
EUROMET The Technical Committee for Metrology in Chemistry, Attendee, Braunschweig, Germany, 2013

## **Scholarships**

BİDEB 2232-DOKTORA SONRASI GERİ DÖNÜŞ BURSUSU, TÜBİTAK, 2013 - 2015  
Lisans Bursu, University, 1995 - 1999

## **Awards**

KÖSE M. E., FABED, Fevzi Akkaya Bilimsel Etkinlikleri Destekleme Fonu, October 2016  
KÖSE M. E., Bilim Akademisi Genç Bilim İnsanları Ödül Programı (BAGEP), Bilim Akademisi, March 2016

## **Non Academic Experience**

TÜBİTAK  
National Renewable Energy Laboratory, USA  
National Renewable Energy Laboratory, USA  
Clemson University