

Prof. HAMDİ ŞÜKÜR KILIÇ

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Biography

Prof. Dr. Hamdi Şükür KILIÇ was born in 1965 in Bayburt. He completed his primary, secondary and high school education in Bayburt. Hamdi Şükür Kılıç, graduated from Selçuk University, Faculty of Engineering and Architecture, Department of Physics Engineering in 1988 as a Physics Engineer. He started to work as a research assistant in the Department of Atomic and Molecular Physics at the Physics Department of Selcuk University in 1990 and completed his doctoral studies at the University of Glasgow (UK) in 1997. He was appointed as Assistant Professor in 1998, as Associate Professor in 2002 and as Professor in 2007. He still continues to carry out studies as a Faculty Member in Selçuk University, Faculty of Science.

He served in various administrative positions within the university life. Prof. Dr. Hamdi Şükür KILIÇ has carried out many scientific activities in national and international platforms. At the end of these scientific activities, and with about 2000 scientific citations to his scientific studies given in details of the resume. Prof.Dr. Hamdi Şükür KILIÇ's scientific *h-index* and *i10-index* appear to be 24 and 51, respectively.

Numerous scientists have trained and across Turkey from the students he trained engaged in administrative positions at many universities, he has received already Professorship, Associate Professor, Assistant Professor and Doctor titled academics taught and our country proud of all the students see as the future Professor Dr. Hamdi Şükür KILIÇ has served as a jury member for many doctoral, assistant professors, professors, and has been a member, board member, and board member of many professional journals and associations.

Education Information

Doctorate, Glasgow University, Faculty of Science, Physics, Scotland 1993 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Research Areas

Particle Accelerators, Direct Energy Conversion and Energy Storage, Renewable energy, Semiconductor and Superconductor Materials, Optical Properties, Physical Properties, Electrical and Magnetic Properties, Composites, Plating, Material Characterization, Metallic Materials, Nanomaterials, Physics, Atomic and Molecular Physics, Theory of Atoms and Molecules, Mechanical control of atoms, molecules and ions, Atomic Spectra and Photon Interactions, Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon, Electronic and magnetic devices, microelectronics, Materials Science, Physics of Plasmas

Academic Titles / Tasks

Professor, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2024 - Continues

Academic and Administrative Experience

Vice Rector, Dokuz Eylul University, 2024 - Continues

Vice Rector, Dokuz Eylul University, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 2024 - Continues

Head of Ethics Committee, Selcuk University, 2024 - 2024

Head of Department, Selcuk University, 2011 - 2021

Head of Department, Selcuk University, Fen Fakültesi, Fizik, 2016 - 2019

Assistant Director of the Institute, Selcuk University, Fen , Fizik, 1999 - 2003

Deputy Head of Department, Selcuk University, 1998 - 2000

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tuning the Nonlinear Optical Properties of Cu₂SnS₃ Nanoparticles Using Alkali Ions Doping**
Gündoğdu Y., Houimi A., Gezgin S. Y., KILIÇ H. Ş.
Plasmonics, vol.19, no.6, pp.2923-2934, 2024 (SCI-Expanded)
- II. **Experimental and Theoretical Investigation of Zr-Doped CuO/Si Solar Cell**
Yigit Gezgin S., Baturay Ş., Ozaydin C., KILIÇ H. Ş.
Physica Status Solidi (A) Applications and Materials Science, vol.221, no.14, 2024 (SCI-Expanded)
- III. **Effect of femtosecond laser induced surface patterns on the flexural strength of monolithic zirconia**
Okutan Y., Gundogdu Y., Donmez M. B., Seker H., KILIÇ H. Ş.
Journal of Biomedical Materials Research - Part B Applied Biomaterials, vol.112, no.6, 2024 (SCI-Expanded)
- IV. **Sensor properties of plasmonic silver and gold nanoparticles produced by pulsed laser deposition**
Candan I., Gezgin S. Y., Gumgum H. B., KILIÇ H. Ş.
Journal of Optoelectronics and Advanced Materials, vol.26, no.5-6, pp.186-198, 2024 (SCI-Expanded)
- V. **Utilizing Gold Nanoparticle Decoration for Enhanced UV Photodetection in CdS Thin Films Fabricated by Pulsed Laser Deposition: Exploiting Plasmon-Induced Effects**
Belaid W., Gezgin S. Y., Basyooni-M. Kabatas M. A., Eker Y. R., KILIÇ H. Ş.
Nanomaterials, vol.14, no.5, 2024 (SCI-Expanded)
- VI. **Femtosecond laser-induced production of ZnO@Ag nanocomposites for an improvement in photocatalytic efficiency in the degradation of organic pollutants**
Gündoğdu Y., Dursun S., Yiğit Gezgin S., KILIÇ H. Ş.
Optics and Laser Technology, vol.170, 2024 (SCI-Expanded)
- VII. **Microstrain effects of laser-ablated Au nanoparticles in enhancing CZTS-based 1 Sun photodetector**

devices

Gezgin S. Y., Belaid W., Kabatas M. A. B., Eker Y. R., KILIÇ H. Ş.

Physical Chemistry Chemical Physics, vol.26, no.12, pp.9534-9545, 2024 (SCI-Expanded)

- VIII. **Enhanced Opto-Electronic Properties of Bi:CuO/n-Si Heterojunctions for Photodetector Applications**
Sutcu G., Yigit Gezgin S., Baturay S., KILIÇ H. Ş.
Acta Physica Polonica A, vol.145, no.1, pp.3-15, 2024 (SCI-Expanded)
- IX. **Third-order nonlinear optical properties of CsPbCl₃ and CsPbBr₃ perovskite quantum dots: Effects of particle size and surface traps**
Çadirci M., Gündoğdu Y., Bakay M. S., KILIÇ H. Ş.
Optical Materials, vol.143, 2023 (SCI-Expanded)
- X. **Influence of Mn doping on electrical properties of TiO₂/Si heterojunction diode**
Baturay S., Bicer O., Yigit Gezgin S., Candan I., Budak Gumgum H., KILIÇ H. Ş.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, vol.78, no.6, pp.563-578, 2023 (SCI-Expanded)
- XI. **A theoretical study of the effects of electric field, hydrostatic pressure, and temperature on photoionization cross-section of a donor impurity in (Al, Ga)N/AlN double triangular quantum wells**
Belaid W., El Ghazi H., Zaki S. E., Basyooni M. A., Tihiti M., Ennadir R., KILIÇ H. Ş., Zorkani I., Jorio A.
Physica Scripta, vol.98, no.4, 2023 (SCI-Expanded)
- XII. **Fabrication of eco-friendly superhydrophobic and superoleophilic PHB-SiO₂ bionanofiber membrane for gravity-driven oil/water separation**
Sariipek F. B., Gündoğdu Y., KILIÇ H. Ş.
Journal of Applied Polymer Science, vol.140, no.9, 2023 (SCI-Expanded)
- XIII. **The effect of Ag plasmonic nanoparticles on the efficiency of CZTS solar cell: an experimental investigation and numerical modelling**
Yigit Gezgin S., KILIÇ H. Ş.
Indian Journal of Physics, vol.97, no.3, pp.779-796, 2023 (SCI-Expanded)
- XIV. **Optical, Optoelectronic, and Third-Order Nonlinear Photonics of Ultrathin Molybdenum Oxide Film Deposited by Atomic Layer Deposition**
Basyooni M. A., Gundogdu Y., KILIÇ H. Ş., Eker Y. R.
Physica Status Solidi (A) Applications and Materials Science, vol.220, no.6, 2023 (SCI-Expanded)
- XV. **Production of Cu₂SnS₃ thin films depending on the sulphur flow rate and annealing temperature time**
Candan I., Gezgin S. Y., Baturay S., KILIÇ H. Ş.
Journal of Optoelectronics and Advanced Materials, vol.25, no.3-4, pp.191-202, 2023 (SCI-Expanded)
- XVI. **Investigation of photocatalytic activity (under visible light) of ultrathin CZTS films produced in different thicknesses by PLD method**
Dursun S., Sariipek F. B., Kiliç S., Yigit Gezgin S., Gündoğdu Y., KILIÇ H. Ş.
Optical and Quantum Electronics, vol.55, no.2, 2023 (SCI-Expanded)
- XVII. **Effect of femtosecond laser and silica-coating on zirconia framework-veneering ceramic bonding, surface chemistry and crystallographic changes**
Yavuz T., Aslan M. A., Akpınar Y. Z., KILIÇ H. Ş., Al-Haj Husain N., Özcan M.
Journal of Adhesion Science and Technology, vol.37, no.6, pp.1059-1070, 2023 (SCI-Expanded)
- XVIII. **Effect of Li Doping on Cu₂SnS₃/n-Si Heterojunction Solar Cells: Experiments and Simulation**
Houimi A., Gezgin S. Y., Mercimek B., KILIÇ H. Ş.
Crystal Research and Technology, vol.58, no.1, 2023 (SCI-Expanded)
- XIX. **Synthesis of novel 2-(benzhydryloxy) phenoxy-substituted zinc phthalocyanine, third-order nonlinear optical and fluorescence properties**
Güngördü Solğun D., Gündoğdu Y., KILIÇ H. Ş., Ağırtaş M. S.
Bulletin of Materials Science, vol.45, no.4, 2022 (SCI-Expanded)
- XX. **Femtosecond laser microstructuring of monolithic zirconia: Effects of laser parameters on resin bond strength**

Okutan Y., Gundogdu Y., KILIÇ H. Ş., Kandemir B., Yucel M. T.

International Journal of Applied Ceramic Technology, vol.19, no.5, pp.2834-2844, 2022 (SCI-Expanded)

- XXI. **The effect of sodium (Na) doping on the performance of n-Si/Cu₂SnS₃ heterojunction solar cells deposited by PLD using a homemade target.**
Houimi A., Gezgin S. Y., KILIÇ H. Ş.
Optik, vol.264, 2022 (SCI-Expanded)
- XXII. **The Effect of Ag and Au Contacts on the Efficiency of CZTS/n-Si Solar Cell: the Confirmation of Experimental and Theoretical Results by SCAPS Simulation**
Gezgin S. Y., KILIÇ H. Ş.
Brazilian Journal of Physics, vol.52, no.4, 2022 (SCI-Expanded)
- XXIII. **Biomarkers to target and silence stemness of breast cancer stem cell model: silencing MDR1 by siRNA**
Yıldırım G., Kars M. D., Kars G., KILIÇ H. Ş.
Turkish Journal of Biochemistry, vol.47, no.4, pp.445-455, 2022 (SCI-Expanded)
- XXIV. **Third order optical nonlinear properties of gold (Au) nanoparticles synthesized by green laser ablation in bio-based Poly(ϵ -caprolactone) solution**
Bayram Sariipek F., Gündoğdu Y., KILIÇ H. Ş.
Optical Materials, vol.129, 2022 (SCI-Expanded)
- XXV. **Third order nonlinear optical properties of copper indium gallium selenide (CIGS) nanocrystal thin films**
KILIÇ H. Ş., Yiğit Gezgin S., Üzümlü Ö., Gündoğdu Y.
Applied Physics B: Lasers and Optics, vol.128, no.6, 2022 (SCI-Expanded)
- XXVI. **Theoretical Analysis of Solar Cell Performance with Different Backsurface-Filed Layers Utilizing Experimental Results of CdS Films Deposited by Pulsed Laser**
Houimi A., Yiğit Gezgin S., KILIÇ H. Ş.
Physica Status Solidi (A) Applications and Materials Science, vol.219, no.11, 2022 (SCI-Expanded)
- XXVII. **Observation of negative photoresponse in joule-heated Au/Cu₂SnS₃ ternary chalcogenide thin film deposited by low energy pulsed laser deposition**
Basyooni M. A., Belaid W., Houimi A., Zaki S. E., Eker Y. R., Gezgin S. Y., KILIÇ H. Ş.
Optical Materials, vol.128, 2022 (SCI-Expanded)
- XXVIII. **Copper-based thiospinel quantum dots as potential candidates for nonlinear optical applications**
Gundogdu Y., Sarilmaz A., Gencer A., ÖZEL F., SÜRÜCÜ G., KILIÇ H. Ş., Ersoz M.
Optics and Laser Technology, vol.148, 2022 (SCI-Expanded)
- XXIX. **Intersubband optical absorption in (In,Ga)N/GaN double quantum wells considering applied electric field effects**
En-nadir R., El Ghazi H., Jorio A., Zorkani I., KILIÇ H. Ş.
Journal of Computational Electronics, vol.21, no.1, pp.111-118, 2022 (SCI-Expanded)
- XXX. **Effect of femtosecond laser zirconia surface treatment on cement shear bond strength**
Yeğin E., Yavuz T., Aslan M. A., Atala M. H., Sorensen J. A., KILIÇ H. Ş.
Journal of Adhesion Science and Technology, vol.36, no.18, pp.1951-1963, 2022 (SCI-Expanded)
- XXXI. **Comparison of electrical and photovoltaic parameters of the hetero-junction solar cells based on CZTS and CIGS ultrathin films**
Yiğit Gezgin S., Houimi A., KILIÇ H. Ş.
Materials Technology, vol.37, no.10, pp.1573-1585, 2022 (SCI-Expanded)
- XXXII. **Numerical analysis of CZTS/n-Si solar cells using SCAPS-1D. A comparative study between experimental and calculated outputs**
Houimi A., Gezgin S. Y., Mercimek B., KILIÇ H. Ş.
Optical Materials, vol.121, 2021 (SCI-Expanded)
- XXXIII. **Ground and first five low-lying excited states related optical absorption in In_{0.1}Ga_{0.9}N/GaN double quantum wells: Temperature and coupling impacts**
En-nadir R., El Ghazi H., Belaid W., Jorio A., Zorkani I., KILIÇ H. Ş.

Solid State Communications, vol.338, 2021 (SCI-Expanded)

XXXIV. The Effect of CZTS Ultrathin Film Thickness on the Electrical Characteristic of CZTS/Si Heterojunction Solar Cells in the Darkness and under the Illumination Conditions

Gezgin S. Y., Houimi A., Mercimek B., KILIÇ H. Ş.

Silicon, vol.13, no.10, pp.3555-3567, 2021 (SCI-Expanded)

XXXV. Determination of photovoltaic parameters of CIGS hetero junction solar cells produced by PLD technique, using SCAPS simulation program

Gezgin S. Y., Houimi A., Gündoğdu Y., Mercimek B., KILIÇ H. Ş.

Vacuum, vol.192, 2021 (SCI-Expanded)

XXXVI. A general review on the thiospinels and their energy applications

ÖZEL F., KILIÇ H. Ş., Coskun H., Deveci I., Sarılmaz A., Balıkcıoğlu A., Gundogdu Y., Aljabour A., ÖZEN A., Gezgin S., et al.

Materials Today Energy, vol.21, 2021 (SCI-Expanded)

XXXVII. DFT Study of Conformational Analysis, Molecular Structure and Properties of para-, meta- and ortho 4-Methoxyphenyl Piperazine Isomers

Ekincioglu Y., KILIÇ H. Ş., Dereli Ö.

Brazilian Journal of Physics, vol.51, no.4, pp.958-968, 2021 (SCI-Expanded)

XXXVIII. Third order nonlinear optical properties of CdTe/CdSe Quasi Type-II Colloidal Quantum Dots

Gündoğdu Y., KILIÇ H. Ş., Çadırcı M.

Optical Materials, vol.114, 2021 (SCI-Expanded)

XXXIX. Combined application of femtosecond laser and air-abrasion protocols to monolithic zirconia at different sintering stages: Effects on surface roughness and resin bond strength

Okutan Y., Kandemir B., Gundogdu Y., KILIÇ H. Ş., Yucel M. T.

Journal of Biomedical Materials Research - Part B Applied Biomaterials, vol.109, no.4, pp.596-605, 2021 (SCI-Expanded)

XL. Rhenium/rhenium oxide nanoparticles production using femtosecond pulsed laser ablation in liquid

Kepceoglu A., Gündoğdu Y., Sarılmaz A., Ersöz M., ÖZEL F., KILIÇ H. Ş.

Turkish Journal of Chemistry, vol.45, no.2, pp.485-492, 2021 (SCI-Expanded)

XLI. Experimental and theoretical study of the characteristics of lspr peaks for metal nps produced by controlling ar ambient gas pressure to enhance the efficiency of solar cells

Gezgin S. Y., Kepceoglu A., KILIÇ H. Ş.

Canadian Journal of Physics, vol.99, no.10, pp.907-912, 2021 (SCI-Expanded)

XLII. Nonlinear optical properties of Cu₂ZnSnS₄ nanocrystal thin films and its constituents thin films

KILIÇ H. Ş., Gündoğdu Y., Kılıç S., Yiğit Gezgin S.

Optical and Quantum Electronics, vol.53, no.1, 2021 (SCI-Expanded)

XLIII. Nonlinear optical properties of core shell type II quantum dot structures

Çadırcı M., Gündoğdu Y., Elibol E., KILIÇ H. Ş.

Optics and Laser Technology, vol.128, 2020 (SCI-Expanded)

XLIV. Effect of Ar Gas pressure on LSPR property of Au nanoparticles: Comparison of experimental and theoretical studies

Gezgin S. Y., Kepceoglu A., Gündoğdu Y., Zongo S., Zawadzka A., KILIÇ H. Ş., Sahraoui B.

Nanomaterials, vol.10, no.6, 2020 (SCI-Expanded)

XLV. An improvement on the conversion efficiency of Si/CZTS solar cells by LSPR effect of embedded plasmonic Au nanoparticles

Yiğit Gezgin S., KILIÇ H. Ş.

Optical Materials, vol.101, 2020 (SCI-Expanded)

XLVI. Real-Time Distinguishing of the Xylene Isomers Using Photoionization and Dissociation Mass Spectra Obtained by Femtosecond Laser Mass Spectrometry (FLMS)

Kepceoglu A., Gündoğdu Y., Ledingham K. W. D., KILIÇ H. Ş.

Analytical Letters, vol.53, no.2, pp.290-307, 2020 (SCI-Expanded)

XLVII. Production and photovoltaic characterisation of n-Si/p-CZTS heterojunction solar cells based on a

CZTS ultrathin active layers

Gezgin S. Y., Houimi A., KILIÇ H. Ş.

Optik, vol.199, 2019 (SCI-Expanded)

XLVIII. Determination of electrical parameters of ITO/CZTS/CdS/Ag and ITO/CdS/CZTS/Ag heterojunction diodes in dark and illumination conditions

Yiğit Gezgin S., KILIÇ H. Ş.

Optical and Quantum Electronics, vol.51, no.11, 2019 (SCI-Expanded)

XLIX. Comparison of performances of Principal Component Analysis (PCA) and Factor Analysis (FA) methods on the identification of cancerous and healthy colon tissues

Gündoğdu Y., Karabağlı P., Alptekin H., Şahin M., KILIÇ H. Ş.

International Journal of Mass Spectrometry, vol.445, 2019 (SCI-Expanded)

L. The electrical characteristics of ITO/CZTS/ZnO/Al and ITO/ZnO/CZTS/Al heterojunction diodes

Yiğit Gezgin S., KILIÇ H. Ş.

Optik, vol.182, pp.356-371, 2019 (SCI-Expanded)

LI. Discrimination of cancerous and healthy colon tissues: A new laser-based method

Gündoğdu Y., Alptekin H., Karabağlı P., Şahin M., KILIÇ H. Ş.

Lasers in Surgery and Medicine, vol.51, no.4, pp.363-369, 2019 (SCI-Expanded)

LII. Effect of different surface treatments on the shear bond strength of resin cement to zirconia ceramic and metal alloy*

Yucel M. T., Kilic I., Okutan Y., Tobi E. S., KILIÇ H. Ş., Kepceoglu A., Donmez M. B.

Journal of Adhesion Science and Technology, vol.32, no.20, pp.2232-2243, 2018 (SCI-Expanded)

LIIL. A New Method for Investigation of Different Tissues Using Femtosecond Laser Mass Spectrometry

Gündoğdu Y., KILIÇ H. Ş.

Photomedicine and Laser Surgery, vol.36, no.10, pp.548-554, 2018 (SCI-Expanded)

LIV. Effect of femtosecond laser beam angle and formed shape on surface roughness and shear bond strength between zirconia and resin cement

Yucel M. T., Kilic I., KILIÇ H. Ş., Gundogdu Y., Okutan Y.

Journal of Adhesion Science and Technology, vol.32, no.12, pp.1265-1277, 2018 (SCI-Expanded)

LV. Analysis of Current-Voltage-Temperature and Capacitance-Voltage-Temperature Characteristics of Re/n-Si Schottky Contacts

Durmuş H., KILIÇ H. Ş., Gezgin S. Y., Karataş Ş.

Silicon, vol.10, no.2, pp.361-369, 2018 (SCI-Expanded)

LVI. Analysis of the xylenol isomers by femtosecond laser time of flight mass spectrometry

Kepceoglu A., Köklü N., Gündoğdu Y., Dereli Ö., KILIÇ H. Ş.

Canadian Journal of Physics, vol.96, no.7, pp.711-715, 2018 (SCI-Expanded)

LVII. Effect of Different Surface Treatments on Porcelain-Resin Bond Strength

Yavuz T., Özyılmaz Ö. Y., Dilber E., Tobi E. S., KILIÇ H. Ş.

Journal of Prosthodontics, vol.26, no.5, pp.446-454, 2017 (SCI-Expanded)

LVIII. Bond strengths of brackets bonded to enamel surfaces conditioned with femtosecond and Er:YAG laser systems

Aglarci C., Demir N., Aksakalli S., Dilber E., Sozer O. A., KILIÇ H. Ş.

Lasers in Medical Science, vol.31, no.6, pp.1177-1183, 2016 (SCI-Expanded)

LIX. Effect of Different Surface Treatments on the Bond Strength of Lithium Disilicate Ceramic to the Zirconia Core

Yilmaz-Savas T., Demir N., Ozturk A. N., KILIÇ H. Ş.

Photomedicine and Laser Surgery, vol.34, no.6, pp.236-243, 2016 (SCI-Expanded)

LX. Effect of femtosecond laser beam angle on bond strength of zirconia-resin cement

Akpınar Y. Z., Kepceoglu A., Yavuz T., Aslan M. A., Demirtaş Z., KILIÇ H. Ş., Usumez A.

Lasers in Medical Science, vol.30, no.8, pp.2123-2128, 2015 (SCI-Expanded)

LXI. Effect of femtosecond laser treatment on the shear bond strength of a metal bracket to prepared porcelain surface

- Akpınar Y. Z., İRGİN C., Yavuz T., Aslan M. A., KILIÇ H. Ş., Usumez A.
Photomedicine and Laser Surgery, vol.33, no.4, pp.206-212, 2015 (SCI-Expanded)
- LXII. **Effect of various lasers on the bond strength of two zirconia ceramics**
Kara O., KARA H. B., Tobi E. S., Ozturk A. N., KILIÇ H. Ş.
Photomedicine and Laser Surgery, vol.33, no.2, pp.69-76, 2015 (SCI-Expanded)
- LXIII. **Effect of different surface shapes formed by femtosecond laser on zirconia-resin cement shear bond strength**
Akpınar Y. Z., Yavuz T., Aslan M. A., Kepceoglu A., KILIÇ H. Ş.
Journal of Adhesion Science and Technology, vol.29, no.3, pp.149-157, 2015 (SCI-Expanded)
- LXIV. **Femtosecond laser induced photodynamic therapy on 5-ALA treated SKMEL-30 cells: An efficient theranostic strategy to combat melanoma**
Kars M. D., Kara R., Gündoğdu Y., Kepceoğlu A., KILIÇ H. Ş.
Biomedicine and Pharmacotherapy, vol.68, no.5, pp.657-662, 2014 (SCI-Expanded)
- LXV. **A mass spectrometric investigation of isomers of butane**
Aliç T. Y., KILIÇ H. Ş., Durmuş H., Doğan M., Ledingham K. W. D.
Rapid Communications in Mass Spectrometry, vol.26, no.8, pp.893-905, 2012 (SCI-Expanded)
- LXVI. **Designing multi-field linear time-of-flight mass spectrometers with higher-order space focusing**
Yildirim M., Sise O., Dogan M., KILIÇ H. Ş.
International Journal of Mass Spectrometry, vol.291, no.1-2, pp.1-12, 2010 (SCI-Expanded)
- LXVII. **Radiative lifetimes of rydberg states in neutral gallium**
Yildiz M., Celik G., KILIÇ H. Ş.
Acta Physica Polonica A, vol.115, no.3, pp.641-646, 2009 (SCI-Expanded)
- LXVIII. **Calculation of the 1s-2s two-photon excitation cross-section in atomic hydrogen**
Çelik G., Çelik E., KILIÇ H. Ş.
European Physical Journal D, vol.50, no.3, pp.237-240, 2008 (SCI-Expanded)
- LXIX. **Comparison of transition probabilities calculated using different parameters on WBEPM theory for some p-d and d-p transitions in excited atomic nitrogen**
Çelik G., Akin E., KILIÇ H. Ş.
International Journal of Quantum Chemistry, vol.107, no.2, pp.495-500, 2007 (SCI-Expanded)
- LXX. **Determination of excited-state ionization potentials for lithium-like sequence using weakest bound electron potential model theory**
Çelik G., Yildiz M., KILIÇ H. Ş.
Acta Physica Polonica A, vol.112, no.3, pp.485-494, 2007 (SCI-Expanded)
- LXXI. **The theoretical calculation of transition probabilities for some excited p-d transitions in atomic nitrogen**
Çelik G., Akin E., KILIÇ H. Ş.
European Physical Journal D, vol.40, no.3, pp.325-330, 2006 (SCI-Expanded)
- LXXII. **The onset of Coulomb explosions in polyatomic molecules**
Smith D., Ledingham K., Singhal R., McCanny T., Graham P., KILIÇ H. Ş., Tzallas P., Kosmidis C., Langley A., Taday P.
Rapid Communications in Mass Spectrometry, vol.13, no.14, pp.1366-1373, 1999 (SCI-Expanded)
- LXXIII. **Comment on "On the ionisation and dissociation of NO₂ by short intense laser pulses"**
Singhal R., KILIÇ H. Ş., Ledingham K., McCanny T., Peng W., Smith D., Kosmidis C., Langley A., Taday P.
Chemical Physics Letters, vol.292, no.4-6, pp.643-646, 1998 (SCI-Expanded)
- LXXIV. **Behavior of polyatomic molecules in intense infrared laser beams**
Ledingham K., Singhal R., Smith D., McCanny T., Graham P., KILIÇ H. Ş., Peng W., Wang S., Langley A., Taday P., et al.
Journal of Physical Chemistry A, vol.102, no.18, pp.3002-3005, 1998 (SCI-Expanded)
- LXXV. **Ionization and dissociation of benzaldehyde using short intense laser pulses**
Smith D., Ledingham K., KILIÇ H. Ş., McCanny T., Peng W., Singhal R., Langley A., Taday P., Kosmidis C.
Journal of Physical Chemistry A, vol.102, no.15, pp.2519-2526, 1998 (SCI-Expanded)
- LXXVI. **Time-of-flight mass spectrometry of aromatic molecules subjected to high intensity laser beams**
Smith D., Ledingham K., Singhal R., KILIÇ H. Ş., McCanny T., Langley A., Taday P., Kosmidis C.

- Rapid Communications in Mass Spectrometry, vol.12, no.13, pp.813-820, 1998 (SCI-Expanded)
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- I. **A THEORETICAL STUDY ON CIGS SOLAR CELL PRODUCED USING PULSE LASER DEPOSITION TECHNIQUE**
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- II. **AN INVESTIGATION OF OPTICAL PROPERTIES OF CADMIUM SULFATE (CdS) THIN FILMS PRODUCED BY PULSED LASER DEPOSITION (PLD) TECHNIQUE**
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XXXIII. The determination of photovoltaic values of CZTS solar cell using SCAPS simulation program

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