Prof. BETÜL ÇALIŞKAN

Personal Information

Web: https://avesis.ankara.edu.tr/btlcaliskan

International Researcher IDs ORCID: 0000-0001-6748-1169 ScopusID: 9639004300 Yoksis Researcher ID: 38569

Research Areas

Atomic and Molecular Interactions, Molecular Properties and Interactions with Photon

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Electron paramagnetic resonance study of the paramagnetic centers in gamma-irradiated 4-Nitrobenzaldehyde single crystal Caliskan B., Koc Y. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.179, no.9-10, pp.1153-1161, 2024 (SCI-Expanded) II. Electron paramagnetic resonance study of gamma-irradiated soduxin single crystal Caliskan B., Caliskan A. C. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.178, no.7-8, pp.843-854, 2023 (SCI-Expanded) III. Electron Paramagnetic Resonance Study of the Radiation Damage in Trans-Chalcone Single Crystal Caliskan B., Caliskan A. C. ACTA PHYSICA POLONICA A, vol.136, no.1, pp.92-100, 2019 (SCI-Expanded) IV. Electron paramagnetic resonance study of the paramagnetic center in gamma-irradiated sulfanilic acid single crystal Caliskana B., Caliskan A. Acta Physica Polonica A, vol.135, no.3, pp.480-484, 2019 (SCI-Expanded) V. Electron paramagnetic resonance study of the radiation damage in phosphoryethanolamine single crystal ÇALIŞKAN B., Caliskan A. C. Journal of Molecular Structure, vol.1173, pp.781-791, 2018 (SCI-Expanded) VI. Electron paramagnetic resonance study of radiation-induced paramagnetic centers in succinic anhydride single crystal ÇALIŞKAN B., Caliskan A. C., Er E. Journal of Molecular Structure, vol.1144, pp.421-431, 2017 (SCI-Expanded) VII. EPR study of radiation damage in gamma-irradiated 3-nitroacetophenone single crystal ÇALIŞKAN B., Caliskan A. C. Radiation Effects and Defects in Solids, vol.172, no.5-6, pp.398-410, 2017 (SCI-Expanded) VIII. EPR study of free radical in gamma-irradiated bis(cyclopentadienyl)zirconium dichloride single crystal ÇALIŞKAN B., Caliskan A. C. Radiation Effects and Defects in Solids, vol.172, no.5-6, pp.507-516, 2017 (SCI-Expanded)
 - IX. Electron paramagnetic resonance study of gamma-irradiated potassium hydroquinone

monosulfonate single crystal ÇALIŞKAN B., Caliskan A. C., Er E. Radiation Effects and Defects in Solids, vol.171, no.5-6, pp.440-450, 2016 (SCI-Expanded) X. Electron paramagnetic resonance study of radiation damage in isonipecotic acid single crystal ÇALIŞKAN B., Caliskan A. C., Yerli R. Journal of Molecular Structure, vol.1075, pp.12-16, 2014 (SCI-Expanded) XI. Electron paramagnetic resonance study of gamma-irradiated phenidone single crystal ÇALIŞKAN B., Tokgoz H. Radiation Effects and Defects in Solids, vol.169, no.3, pp.225-231, 2014 (SCI-Expanded) XII. EPR study of gamma irradiated cholestanone single crystal ÇALIŞKAN B. Acta Physica Polonica A, vol.125, no.1, pp.135-138, 2014 (SCI-Expanded) Electron paramagnetic resonance characterization of gamma irradiation damage centers in S-XIII. butyrylthiocholine iodide single crystal Caliskan B., Civi M., Birey M. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.162, no.2, pp.87-93, 2007 (SCI-Expanded) XIV. Electron paramagnetic resonance analysis of gamma irradiated 4-nitropyridine N-oxide single crvstal Caliskan B., Civi M., Birey M. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.161, no.5, pp.313-317, 2006 (SCI-Expanded) XV. Electron paramagnetic resonance study of irradiated tetramethyl-4-piperidion Aras E., Asik B., Caliskan B., Buyum M., Birey M. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.159, no.6, pp.353-358, 2004 (SCI-Expanded) XVI. EPR of gamma irradiated single crystals of cholesteryl benzoate Caliskan B., Aras E., Asik B., Buyum M., Birey M. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.159, no.1, pp.1-5, 2004 (SCI-Expanded) XVII. EPR study of irradiated 4-chloromethyl pyridinium chloride Asik B., Aras E., Caliskan B., Eken M., Birey M. RADIATION EFFECTS AND DEFECTS IN SOLIDS, vol.159, no.1, pp.55-60, 2004 (SCI-Expanded) XVIII. Measurement of radiative vacancy distributions for the L2, L3 subshell and M shell of some elements with atomic range $41 \le Z \le 68$ ÇALIŞKAN B., ERTUĞRUL M., Öz E., Erdoğan H. Journal of Quantitative Spectroscopy and Radiative Transfer, vol.74, no.2, pp.139-146, 2002 (SCI-Expanded)

Books & Book Chapters

I. Biomedical EPR
 ÇALIŞKAN B., ÇALIŞKAN A. C.
 in: Topics from EPR Research, Ahmed M. Maghraby, Editor, IntechOpen, Londrina, pp.5-22, 2019
 Interaction with Matter of Lonizing Padiation and Padiation Damages (Padiation)

- II. Interaction with Matter of Ionizing Radiation and Radiation Damages (Radicals)
 ÇALIŞKAN B., ÇALIŞKAN A. C.
 in: Ionizing Radiation Effects and Applications, , Editor, InTech, pp.135-151, 2018
- III. EPR Analyzes of Antioxidant Compounds
 ÇALIŞKAN B., ÇALIŞKAN A. C.
 in: Free Radicals, Antioxidants and Diseases, , Editor, InTech, pp.49-64, 2018
- IV. Potassium Nutrition in Plants and Its Interactions with Other Nutrients in Hydroponic Culture ÇALIŞKAN B., ÇALIŞKAN A. C.
 in: Potassium - Improvement of Quality in Fruits and Vegetables Through Hydroponic Nutrient Management, , Editor, InTech, pp.9-21, 2018
- V. Radical Mechanisms in the Metallocenes

ÇALIŞKAN B.

in: Recent Progress in Organometallic Chemistry, , Editor, IntechOpen, pp.25, 2017

VI. Magnetic Resonance
 ÇALIŞKAN B., ÇALIŞKAN A. C.
 in: Resonance, , Editor, IntechOpen, pp.1-12, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. Electron Paramagnetic Resonance Study of The Radiation damage in Trans Chalcone Single Crystal ÇALIŞKAN B., ÇALIŞKAN A. C.
 3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2016)19-24 October 2016, ANTALYA-TURKEY, 19 - 24 October 2016
- II. Electron Paramagnetic Resonance of Gamma Irradiated Single Crystals of Succinic Acid Disodium Salt

ÇALIŞKAN B., ÇALIŞKAN A. C.

3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2016)19-24 October 2016, ANTALYA-TURKEY, 19 - 24 October 2016

- III. Electron paramagnetic resonance study of radiation damage in sulfanilic acid single crystal ÇALIŞKAN B., ÇALIŞKAN A. C.
 3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2016)19-24 October 2016, ANTALYA-TURKEY, 19 - 24 October 2016
- IV. EPR Study of Gamma Irradiated 2 Aminoethyl Dihydrogen Phosphate Single Crystal ÇALIŞKAN B., ÇALIŞKAN A. C.
 3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL AND EXPERIMENTAL SCIENCE AND ENGINEERING (ICCESEN-2016)19-24 October 2016, ANTALYA-TURKEY, 19 - 24 October 2016

Metrics

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