Prof. SAVAŞ KAYA

Personal Information

Email: savaskaya@cumhuriyet.edu.tr

Web: https://avesis.cumhuriyet.edu.tr/savaskaya

Education Information

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2013 - 2017 Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2011 - 2013 Undergraduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 2007 - 2011

Dissertations

Doctorate, Kimyasal sertlik ve elektronegatiflik kavramlarına ilişkin dengelenme ilkelerinin kimyadaki bazı yeni uygulamaları, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2017 Postgraduate, İzoelektronik serilerde kimyasal sertlik ve mutlak elektronegatifliğin incelenmesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2013

Research Areas

Chemistry

Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet University, Sağlık Hizmetleri Meslek Yüksekokulu, Eczacılık Bölümü, 2013 - Continues

Academic and Administrative Experience

Sivas Cumhuriyet Üniversitesi, İmranlı Meslek Yüksekokulu, Mülkiyet Koruma Ve Güvenlik Bölümü, 2013 - Continues

Courses

Temel Kimya, Associate Degree, 2020 - 2021 Çevre Sağlığı ve Koruma, Associate Degree, 2020 - 2021 Temel Kimya, Associate Degree, 2020 - 2021 İtfaiye Araç ve Malzeme Bilgisi - II, Associate Degree, 2018 - 2019 Yapı ve Elektrik İşlerinde İSG, Associate Degree, 2018 - 2019 Arama Kurtarma Teknikleri, Associate Degree, 2018 - 2019 İş Sağlığı ve Güvenliği Risk Analizi, Associate Degree, 2019 - 2020 Genel Kimya, Associate Degree, 2019 - 2020 İş Kazaları ve Raporlama, Associate Degree, 2018 - 2019

Toksikoloji ve Zehirlenmeler, Associate Degree, 2019 - 2020

Temel Elektrik ve Elektronik Bilgisi, Associate Degree, 2018 - 2019

Kimyasallar ve Tehlikeleri, Associate Degree, 2018 - 2019

İtfaiye Araç ve Malzeme Bilgisi - I, Associate Degree, 2018 - 2019

Toksikoloji ve Zehirlenmeler, Associate Degree, 2017 - 2018, 2016 - 2017

Taşıma ve Depolama, Associate Degree, 2017 - 2018

Uyarı İşaretleri ve Levha Standartları, Associate Degree, 2018 - 2019

Kimyasallar ve Tehlikeleri, Associate Degree, 2017 - 2018

Genel Kimya, Associate Degree, 2017 - 2018, 2016 - 2017

Taşıma ve Depolama, Associate Degree, 2017 - 2018, 2016 - 2017

Matematik - I, Associate Degree, 2016 - 2017

Matematik 2, Associate Degree, 2016 - 2017

Matematik 1, Associate Degree, 2016 - 2017

Matematik - II, Associate Degree, 2016 - 2017

İlkyardım ve Sağlık Bilgisi, Associate Degree, 2016 - 2017

İngilizce - I, Associate Degree, 2016 - 2017

İngilizce 1, Associate Degree, 2016 - 2017

Bilgisayar - I, Associate Degree, 2016 - 2017

İngilizce - II, Associate Degree, 2015 - 2016

Atatürk İlkeleri ve Inkılap Tarihi - I, Associate Degree, 2014 - 2015

Ticari Matematik, Associate Degree, 2013 - 2014

Bilgisayarlı Muhasebe, Associate Degree, 2013 - 2014

Jury Memberships

Competition, TÜBİTAK - 2204 - B ORTAOKUL ÖĞRENCİLERİ ARAŞTIRMA PROJELERİ YARIŞMASI, TÜBİTAK, October, 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. IR spectra simulations by anharmonic DFT and CDFT-saturated and unsaturated fatty acids of Siberian sturgeon (Acipenser baerii Brandt,1869)

Aktaş A. B., Daştan T., Görgün S., Günlü A., Ercan E., Katin K., Kaya S.

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II. New solvated Mo(VI) complexes of isatin based asymmetric bisthiocarbohydrazones as potent bioactive agent: synthesis, DFT-molecular docking studies, biological activity evaluation and crystal structures Research Published: 06 September 2024

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III. Illumination of biosorption of Allura Red on Rhus coriaria L. (sumac) plant: equilibrium, kinetic, thermodynamic, and density functional theory-based analyses

Çaylak O., Çetintaş H. İ., Çelik M. S., Kaya N., Çetinkaya S., Maslov M. M., Kaya S.

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VIII. Chalcone-based novel mono and bisthiocarbohydrazone: synthesis, crystal structure, antioxidant property and theoretical evaluation

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IX. Removal of erythrosine B dye from wastewater using chitosan boric acid composite material: Experimental and density functional theory findings

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X. Can van der Waals constants be used in the chemical reactivity analysis? A new approach as a support to minimum magnetizability principle

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XI. Biological evaluation and in silico molecular docking studies of Abies cilicica (Antoine & Kotschy)
Carrière) resin

GÜÇLÜ G., TAŞ A., DİNÇER E., Ucar E., KAYA S., Berisha A., DURAL E., SİLİĞ Y.

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XII. Experimental and theoretical insights about the effect of some newly designed azomethine groupcontained macroheterocycles on oxidative stress and DNA repair gene profiles in neuroblastoma cell lines

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XIII. Synthesis and spectral investigation of novel 4-aryl-5-(aryldiazenyl)thiazole dyes festooned with fluorene moiety: Experimental and theoretical insight

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XIV. Investigating the optical, electronic, magnetic properties and DFT of NiO films prepared using RF sputtering with various argon pressures

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XV. Analysis of boronic acids containing amino ferrocene by DFT approach and in silico studies Muhammad U. S., ERKAN S., KAYA S.

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XVI. Corrosion inhibition of mild steel in acidic media using new oxo-pyrimidine derivatives: Experimental and theoretical insights

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XIX. DFT calculations of photophysical properties of ethylen-dioxy-thiophen derivatives oligomers with optoelectronic functionalities

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XX. Reactivity of diamanes against oxidation: A DFT study

KAYA S., Dua H., Sarkar U., Demin V. A., Kvashnin A. G.

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XXI. Changes in arginine metabolism in advanced Alzheimer's patients: Experimental and theoretical analyses

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XXII. Experimental and theoretical observations in a mixed mode dispersive solid phase extraction of exogenous surfactants from exhaled breath condensate prior to HPLC-MS/MS analysis Khoubnasabjafari M., ALTUNAY N., Tuzen M., KAYA S., Katin K. P., Farajzadeh M. A., Hosseini M., Afshar Mogaddam M. R., Jouyban A.

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Combination of doped amorphous carbon based dispersive solid phase extraction with ionic liquid-XXIII. based DLLME for the extraction of aromatic amines from leather industries wastewater; Theoretical and experimental insights

Nemati M., Farajzadeh M. A., ALTUNAY N., Tuzen M., KAYA S., Maslov M. M., Afshar Mogaddam M. R. Journal of Molecular Structure, vol.1281, 2023 (SCI-Expanded)

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XXV. Adsorption of 40 low molecular weight drugs on pristine and fluorinated C60 fullerenes: Ab initio, statistical and neural networks analysis

Kalika E. B., Bondarev N. V., Katin K. P., Kochaev A. I., Grekova A. A., KAYA S., Bauetdinov Y. A., Maslov M. M. Journal of Molecular Liquids, vol.377, 2023 (SCI-Expanded)

Acetylsalicylic acid as an environmentally friendly corrosion inhibitor for carbon steel XC48 in XXVI. chloride environment

Merimi C., Hammouti B., Zaidi K., Hafez B., Elmsellem H., Touzani R., KAYA S.

Journal of Molecular Structure, vol.1278, 2023 (SCI-Expanded)

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YILDIZ S., Canbaz G., KAYA S., Maslov M. M.

Journal of Molecular Structure, vol.1277, 2023 (SCI-Expanded)

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Equilibrium and DFT modeling studies for the biosorption of Safranin O dye from water samples XXX. using Bacillus subtilis biosorbent

ÇETİNKAYA S., KAYA S., Aksu A., ÇETİNTAŞ H. İ., Jalbani N. S., ERKAN S., Marzouki R.

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XXXI. Experimental and theoretical insights about the effect of some newly designed azomethine groupcontained macroheterocycles on oxidative stress and DNA repair gene profiles in neuroblastoma cell lines

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XXXII. Prunus mahaleb shell as a sustainable bioresource for carminic acid removal from aqueous solution: Experimental and theoretical studies

Keskin Z. S., Şenol Z. M., Kaya S., Şimşek S.

JOURNAL OF MOLECULAR STRUCTURE, vol.1275, pp.1-11, 2023 (SCI-Expanded)

XXXIII. A detailed electronic-scale DFT modeling/MD simulation, electrochemical and surface morphological explorations of imidazolium-based ionic liquids as sustainable and non-toxic corrosion inhibitors for mild steel in 1 M HCl

EL Hajjaji F., Ech-chihbi E., Salim R., Titi A., Messali M., El Ibrahimi B., KAYA S., Taleb M.

Materials Science and Engineering B: Solid-State Materials for Advanced Technology, vol.289, 2023 (SCI-Expanded)

XXXIV. Adsorption mechanism investigation of methylthioninium chloride dye onto some metal phosphates using Monte Carlo dynamic simulations and DFT calculations

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XXXV. Green synthesis of reduced graphene oxide and their use on column adsorption of phenol from olive mill wastewater

Haydari I., Aziz K., Kaya S., Daştan T., Ouazzani N., Mandi L., Aziz F.

Process Safety and Environmental Protection, vol.170, pp.1079-1091, 2023 (SCI-Expanded)

XXXVI. Experimental and theoretical insights on the structural and optical properties of GeOx thin films deposited via RF magnetron sputtering under varying oxygen percentage

ŞENADIM TÜZEMEN E., Hopoğlu H., SARITAŞ S., AYDINOĞLU H. S., ERTUĞRUL M., Maslov M., KAYA S., UNGAN F., GÜR E.

Physica B: Condensed Matter, vol.650, 2023 (SCI-Expanded)

XXXVII. Adsorption properties of amine modified lignin-hydrogel composite for uranyl ions: Theoretical and experimental insights

ŞİMŞEK S., KAYA S., Jalbani N. S.

Journal of the Indian Chemical Society, vol.100, no.2, 2023 (SCI-Expanded)

XXXVIII. Anisotropic Carrier Mobility and Spectral Fingerprints of Two-Dimensional γ-Phosphorus Carbide with Antisite Defects

Katin K. P., Maslov M. M., Nikitenko V. R., Kochaev A. I., KAYA S., Prezhdo O. V.

Journal of Physical Chemistry Letters, vol.14, no.1, pp.214-220, 2023 (SCI-Expanded)

XXXIX. Synthesis and spectral properties of novel series of fluorene-based azo dyes containing thiazole scaffold: Studying of the solvent and substituent effect on absorption spectra

ElGuesmi N., Farghaly T., Khormi A. Y., Shaaban M. R., Katin K. P., KAYA S.

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XL. Quantum chemical and molecular dynamics simulation approach to investigate adsorption behaviour of organic azo dyes on TiO2 and ZnO surfaces

Mandal S., Zamindar S., Sarkar S., Murmu M., Guo L., KAYA S., Hirani H., Banerjee P.

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XLI. An effective and smart corrosion inhibitor in acidic environment: Experimental & theoretical studies
Bouoidina A., Haldhar R., Salim R., Ech-chihbi E., Ichou H., El-Hajjaji F., Kim S., El Ibrahimi B., KAYA S., Taleb M.
Korean Journal of Chemical Engineering, vol.40, no.1, pp.235-247, 2023 (SCI-Expanded)

XLII. Advancement of corrosion inhibitor system through N-heterocyclic compounds: a review Sheetal S., Batra R., Singh A. K., Singh M., Thakur S., Pani B., KAYA S.

Corrosion Engineering Science and Technology, vol.58, no.1, pp.73-101, 2023 (SCI-Expanded)

XLIII. Metal cations toxicity: An inorganic interpretation

KAYA S., Bezerra C. W., Fernandes de Farias R., Çiltaş A., ELİK M.

Journal of the Indian Chemical Society, vol.100, no.1, 2023 (SCI-Expanded)

XLIV. Recent Trends in the Characterization and Application Progress of Nano-Modified Coatings in Corrosion Mitigation of Metals and Alloys

Thakur A., KAYA S., Kumar A.

Applied Sciences (Switzerland), vol.13, no.2, 2023 (SCI-Expanded)

XLV. A Combined Study on Degradation Mechanism of Reactive Orange 16 through Fenton-like Process:

Experimental Studies and Density Functional Theoretical Findings

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ChemistrySelect, vol.7, no.48, 2022 (SCI-Expanded)

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XLVIII. Elucidating the adsorption mechanisms of anionic dyes on chitosan (110) surface in aqueous medium by quantum chemical and molecular dynamics

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L. Effect of electron donors on the photophysical and theoretical properties of BODIPY dyes based on tetrazolo[1,5-a]quinoline

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Singh A. K., Singh M., Thakur S., Pani B., KAYA S., EL Ibrahimi B., Marzouki R.

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LII. Recent Advancements in Surface Modification, Characterization and Functionalization for Enhancing the Biocompatibility and Corrosion Resistance of Biomedical Implants

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LIV. Experimental, DFT and MC simulation analysis of Vicia Sativa weed aerial extract as sustainable and eco-benign corrosion inhibitor for mild steel in acidic environment

Thakur A., KAYA S., Abousalem A. S., Kumar A.

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LVI. Insights into the role of nanotechnology on the performance of biofuel cells and the production of viable biofuels: A review

Assad H., KAYA S., Kumar P. S., Vo D. N., Sharma A., Kumar A.

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LVII. Theoretical investigations on the unimolecular decomposition mechanisms of isopropyl acetate Abdel-Rahman M. A., Shiroudi A., KAYA S., El-Nahas A. M.

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LXII. Effect of Hemp Fiber Addition on Mechanical Properties of Acrylic Resin: Coupled Experimental and Theoretical Study

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LXVI. New mixed-ligand iron(III) complexes containing thiocarbohydrazones: Preparation, characterization, and chemical reactivity analysis through theoretical calculations KAYA Y., ERÇAĞ A., KAYA S., Katin K. P., ATİLLA D.

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LXVII. Crystal chemistry, DFT calculation and optical properties of the double perovskite stannate Sr2Sn0.8In0.8W0.406

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LXVIII. Handling Keywords: MXene Nanomaterial Hazardous pollutant Adsorption Environmental remediation

Assad H., Fatma I., Kumar A., KAYA S., Vo D. N., Al-Gheethi A., Sharma A.

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LXXIII. Fluorinated carbon and boron nitride fullerenes for drug Delivery: Computational study of structure and adsorption

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LXXV. Natural corrosion inhibitor of renewable eco-waste for SS-410 in sulfuric acid medium: adsorption, electrochemical, and computational studies

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XXIX. EFFECT OF SOME ELECTRON DONOR AND ELECTRON ACCEPTOR GROUPS ON STABILITY OF COMPLEXES ACCORDING TO THE PRINCIPLE OF HSAB

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TAŞ A., GÜÇLÜ G., DİNÇER E., UÇAR SÖZMEN E., DURAL E., KAYA S., SİLİĞ Y.

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IV. A THEORETICAL AND COMPUTATIONAL INSIGHT ON THE TOXICITY OF THE ORGANIC CHEMICALS SERDAROĞLU G., KAYA S.

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V. The substituent effect on chemical reactivity of (9H-pyrido[3,4-b]indol-3-yl)methanol: Spectroscopic and electronic investigation

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VIII. Electrochemical and theoretical study of the behaviour of a Carbon steel in HCl medium by some triazole type compounds

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IX. New Developments on the Application Maximum Entropy Principle: A Theoretical Study SERDAROĞLU G., KAYA S.

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X. A NEW EQUATION TO CALCULATE THE CHEMICAL HARDNESS OF THE MOLECULES

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XVI. determination of corrosion inhibition effets of amino acids:quantum chemical and molecular dynamic simulation study

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XVIII. investigation via principal component analysis dft and molecular dynamics simulations approaches on the anticorrosive effect of some thiophene derivatives against the corrosion of iron TÜZÜN B., KAYA S.

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XIX. theoretical evaluation of triazine derivatives as stell corrosion inhibitors monte carlo simulation approache

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XX. Some New Applications in Solid State Chemistry of Chemical Hardness and Molar Volume Concepts KAYA S., KAYA C.

28. Ulusal Kimya Kongresi, Turkey, 15 - 21 August 2016

XXI. İyonik Katılarda Örgü Enerjisi, Kohezif Enerji ve Mutlak Elektronegatiflik İlişkisinin İncelenmesi KAYA S., KAYA C.

5. ULUSAL ANORGANİK KİMYA KONGRESİ, Turkey, 22 - 25 April 2015

XXII. İyonik Kristallerin Örgü Enerjilerinin Hesaplanması İçin Yeni Bir Metot

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XXV. Bazı iki dişli Schiff baz ligandlarının bakır(II) komplekslerinin hesaplamalı yöntemlerle yapısal analizi

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XXVI. İzoelektronik Serilerde Kimyasal Sertlik, Katyonların İyonlaşma Enerjisi ve Elektron İlgilerinin Hesaplanması

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Activities in Scientific Journals

TURKISH COMPUTATIONAL AND THEORETICAL CHEMISTRY, Committee Member, 2020 - Continues

Arabian Journal of Chemical and Environmental Research, Committee Member, 2020 - Continues

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Scientific Refereeing

JOURNAL OF MOLECULAR LIQUIDS, SCI Journal, December 2021

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ARABIAN JOURNAL OF CHEMISTRY, SCI Journal, August 2020

JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, July 2020

JOURNAL OF MOLECULAR LIQUIDS, SCI Journal, July 2020

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Journal of Oleo Science, Other Indexed Journal, June 2020
COMPUTATIONAL AND THEORETICAL CHEMISTRY, National Scientific Refreed Journal, April 2020
SUPERLATTICES AND MICROSTRUCTURES, SCI Journal, April 2020
JOURNAL OF OLEO SCIENCE, National Scientific Refreed Journal, April 2020
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Scientific Research / Working Group Memberships

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Metrics

Publication: 297

Citation (WoS): 12100 Citation (Scopus): 12100 H-Index (WoS): 61 H-Index (Scopus): 61

Invited Talks

ANALYSIS OF THE RELATIONSHIP BETWEEN TOXICITY OF METAL CATIONS WITH QUANTUM CHEMICAL PARAMETERS, Conference, The Third Edition of The International Congress On Water And Environment Studies, Morocco, December 2020