Prof. Dr. ŞEFİK SÜZER

1. PERSONAL DATA

1.1. Birth place-date Incesu, Kayseri, Turkey, 19 March 1948
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2. ACADEMIC DEGREES

2.1. Prof. Chemistry, METU 1988
2.2. Assoc. Prof. Chemistry, METU 1981
2.3. Asst. Prof. Chemistry, METU 1979
2.4. Ph.D. Chemistry, University of California, Berkeley 1976
2.5. B.S. Chemistry, METU 1970

3. EMPLOYMENT HISTORY

3.1. 09/92 present Professor, Bilkent University, Chemistry Department
3.2 09/00-09/01 Visiting Professor, University of Michigan, Chem. Dept., and Brookhaven National Laboratory, Long Island, N.Y,
3.3.10/88 09/92 Professor, METU, Chemistry Department
3.4. 04/81 10/88 Associate Prefessor, METU, Chemistry Department
3.5. 08/85 04/88 Visiting Professor, University of Virginia, Chemistry Dept.
3.6 11/78 04/81 Assistant Professor, METU, Chemistry Department
3.7. 06/77 11/78 Postdoctoral Associate, Freiburg University, Physics Department
3.8. 04/76 06/77 Postdoctoral Associate, Sydney University, Theoretical Chem.Dept.
3.9. 10/70 04/76 Research and Teaching Assistant, Lawrence Berkeley Lab. and University of California, Berkeley, Chemistry Dept.

PROFESSIONAL AWARDS AND SCHOLARSHIPS

4.1. 2000-2001 Fulbright Resaerch Scholarship-University of Michigan, Ann Arbor
4.2. 1990 Science Award of the Scientific and Technical Research Council of Turkey
4.2. 1985 Fulbright Travel Fellowship
4.4. 1981 Encouragment Award in Chemistry of the Scientific and Technical Research Council of Turkey
4.5. 1976 77 Alexander von Humboldt Fellowship
4.6. 1970 74 NATO Scholarship (Graduate)
4.7. 1965 70 NATO Scholarship (Undergraduate)

5. PROFESSIONAL DUTIES AND ACHIEVEMENTS

5.1.1991 Present National Representative of the COMMISSION ON MOLECULAR STRUCTURE AND SPECTROSCOPY of IUPAC
5.2.1991-Present Member of Panel of TURKISH CHEMICAL SOCIETY
5.3.1980 1990 Member of the Editorial Board of JOURNAL OF ELECTRON SPECTROSCOPY
5.4.1993 Present Member of the TURKISH ACADEMY OF SCIENCES
5.5 1997-Present Honorary Member of the TURKISH CHEMICAL SOCIETY

ADMINISTIRATIVE DUTIES

6.1. 1992-2000 Chair-Chemistry Department-Bilkent University
6.2.1990-1992 Program Director-Natural Sciences-The Scientific and Technical Research Council of turkey
6.3.1989-1990 Assistant Dean – Faculty of Arts and Sciences-METU
6.4.1988-1989 Assistant Chair-Chemistry Department-METU

7. MEMBERSHIP TO PROFESIONAL ORGANIZATIONS

7.1. American Chemical Society
7.2. Society of Applied Spectroscopy
7.2. Turkish Chemical Society
7.3. Adhesion Society

8. SCHOLARLY PUBLICATIONS

1 "The Site of Photoconversion of Protochlorophyllide to Chlorophyllide in Barley Seedlings", S. Süzer and K. Sauer, Plant Physiology 48, 60 (1971).
2 "Initial State Configuration Interaction in the Photoemission Spectrum of Atomic Cd", S. Süzer and D.A. Shirley, J. Chem. Phys. 61, 2481 (1974).
3 "Relativistic and Correlation Effects in the 21.2 eV Photoemission Spectrum of Atomic Lead", S. Süzer, M.S. Banna and D.A. Shirley, J. Chem. Phys. 63, 3473 (1975).
4 "Correlation Satellites in the Atomic Photoelectron Spectra of Group IIA and IIB Elements", S. Süzer, S.T. Lee and D.A. Shirley, Phys. Rev. A 13, 1842 (1976).
5 "Photoelectron Spectra of Atomic and Molecular Bismuth", S. Süzer, S.T. Lee and D.A. Shirley, J. Chem. Phys. 65, 412 (1976).
6 "Relativistic Effects in the UV Photoelectron Spectra of Group VI Diatomic Molecules", S.T. Lee, S. Suzer and D.A.

Shirley, Chem. Phys. Lett. 41, 25 (1976).
7 "Electron Correlation in Atoms from Photoelectron Spectroscopy", D.A. Shirley, S.T. Lee, S. Suzer, E. Matthias and R.A. Rosenberg, Atomic Physics 5, 313 (1976).
8 "Configuration Interaction Effects in the Atomic Photoelectron Spectra of Ba, Sm, Eu and Yb", S.T. Lee, S. Suzer ,E. Matthias, R.A. Rosenberg and D.A. Shirley, J. Chem. Phys. 66, 2496 (1977).
9 "Satellite Structure in the Atomic UV Photoelectron Spectra of Zn, Cd and Hg, Observed at Different Wavelengths", N.S. Hush and S. Suzer, Chem. Phys. Lett. 46, 411 (1977).
10 "UV Subshell Cross Section of Atomic Zn, Cd and Hg: Experiment and Theory", S. Suzer, P.R. Hilton, N.S. Hush and S. Nordholm, J. Elect. Specty. 12, 357 (1977).
11 "Satellites in the 304 A Photoelectron Spectrum of Xe", S. Suzer and N.S. Hush, J. Phys. B 10, L705 (1977).
12 "Photoemission from Atomic Rb 4p and Ag 4d Levels", S. Suzer, J. Chem. Phys. 71, 2730 (1979).
13 "304 A Photoelectron Spectra of Atomic Hg, Tl and Pb 5d Levels: Interaction of Open Shells", S. Suzer, J. Chem. Phys. 72, 6763 (1980).
14 "304 A PES of Tl 5d Levels in Atomic Tl and TlI", S. Suzer, Chem. Phys. Lett. 69, 230 (1980).
15 "584 A PES from the 5p Levels of Cs and CsCl", S. Suzer, Chem. Phys. Lett. 72, 256 (1980).
16 "Photoelectron Spectra of Outer np Levels of Alkali Metal Atoms using He Resonance Lamp: Multiplet and Satellite Structure", S. Suzer, W. Menzel, B. Breuckmann, C. Teodosiou and W. Mehlhorn, J. Phys. B 13, 2061 (1980).
17 "Multiplets in Atoms and Ions: A Display by Photoelectron Spectroscopy", S. Suzer, J. Chem. Educ. 59, 814 (1982).
18 "The Dissociation of the Fluoroethylene Anions", M. Heni, E. Illenberger, H. Baumgartel and S. Suzer, Chem. Phys. Lett. 87, 244 (1982).
19 "Electron Attachment Spectroscopy: Formation and Dissociation of Negative Ions in the Fluorochloroethylenes", E. Illenberger, H. Baumgartel and S. Suzer, J. Elect. Spectry. 33, 123 (1984).
20 "Negative Ion Mass Spectra of Hexafluoro 1,3 Butadiene, Hexafluoro 2 butyne and Hexafluorobutene: Identification of Structural Isomers", S. Suzer, E. Illenberger and H. Baumgartel, J. Org. Mass Spectry. 19, 292 (1984).
21 "A CNDO S Study of Core Hole Satellites in the Photoelectron Spectra of Para, Meta and Orthonitroanilines", A. Bilgin, E. Yurtsever and S. Suzer, Chem. Phys. Lett. 115, 154 (1985).
22 "Use of Cross Correlation for Ratio Measurements in Mass Spectrometry", A. Celikkaya and S. Süzer, Anal. Chem. 58, 3256 (1986).
23 "IR Spectra of Alkali Metal Ammonia Complexes in Solid Argon", S. Suzer and L. Andrews, J. Am. Chem. Soc. 109, 300 (1987).
24 "IR Spectra of Complexes of Na, K and Cs with H2O in Solid Argon", S. Suzer and L. Andrews, Chem. Phys. Lett. 140, 300 (1987).
25 "FTIR Spectra of Ammonia Clusters in Noble Gas Matrices", S. Suzer and L. Andrews, J. Chem. Phys. 87, 5131 (1987).
26 "Matrix Isolation Study of Electron Impact on H2O. Infrared Spectrum of OH in Solid Argon", S. Suzer and L. Andrews, J. Chem. Phys. 88, 916 (1988).
27 "Matrix Isolation Study of Low Energy Electron and Alkali Cation Impact on CCl4", S. Suzer and L. Andrews, Chem. Phys. Lett. 150, 13 (1988).
28 "Matrix Infrared Study of NH2 Produced by Electron Impact on NH3", S. Suzer and L. Andrews, J. Chem. Phys. 89, 5347 (1988).
29 "Aluminum Dichloride and Dibromide. Preparation, Spectroscopic (Including Matrix Isolation) Study, Reactions, and Role (Together with Alkyl(aryl)aluminum Monohalides) in the Preparation of Organoaluminum Compounds", G.A. Olah, O. Farooq, S.M.F. Farnia, M.R. Bruce, F.L. Clouet, P.R. Morton, G.K.S. Prakash, R.C. Stevens, R. Bau, K. Lammertsma, S. Suzer and L. Andrews, J. Am. Chem. Soc. 110, 3231 (1988).
30 "Negative Ion Formatìon in Fluoroacetonitrile and Chloroacetonitrile following Low Energy Electron Impact", J. Hacaloglu, S. Suzer, T. Oster and E. Illenberger, Chem. Phys. Lett. 153, 268 (1988).
31 "Matrix Infrared Study of Low Energy Electron Impact on Hydrocarbons", S. Suzer and L. Andrews, J. Phys. Chem. 93, (1989).
32 "Optical Spectra of Yb Atoms and Dimers in Rare Gas Matrices", S. Suzer and L. Andrews, J. Chem. Phys. 89, 5514 (1989).
33 "Mass Spectrometric Study of Negative Ions from Acetyl Derivatives", J. Hacaloglu, A. Gokmen and S. Suzer, J. Phys. Chem. 93, 3418 (1989).
34 "Mass Spectrometric Study of Negative Ions from Unsaturated Carbonyls", J. Hacaloglu, A. Gokmen, S. Suzer and E. Illenberger, J. Phys. Chem. 93, 7095 (1989).
35 "Chemical Ionization Discharge of N2O for Matrix Infrared Spectroscopic Study of Isolated Anions", J. Hacaloglu, S. Suzer and L. Andrews, J. Phys. Chem. 94, 1759 (1990).
36 "Negative Ion Formation in ClCH2COCl, Cl3COCl and ClCH2COH Under Low Energy Electron Impact", J. Hacaloglu, A. Gokmen and S. Suzer, J. Phys. Chem. 94, 4413 (1990).
37 "Trohoidal Electron Monochromator/Negative Ion Quadrupole Mass Spectrometry: Differentiation of Interfering Masses", Talat Yalcìn and S. Suzer, Organic Mass Spectrometry 25, 483 (1990).
38 "Characterization of Electroinitiated and Radiation Polymerized Poly(Butadienesulfone)", B. Hacìloglu, S. Suzer, U. Akbulut, L. Toppare, P. Aybar and J.P.H. Utley, Journal of Macromolecular Science A 28, 329 (1991).
39 "Evolved Gas Analysis of Pyrolysis Products of some Rubbers by Mass Spectrometry", M. Erdogan, T. Yalcìn, T. Tincer and S. Suzer, European Polymer Journal 27, 413 (1991).
40 "Spectroscopic Analysis of Evolved Gases During Pyrolysis of Polystyrenes" B. Ozden, T. Yalcìn and S. Suzer, Journal of Molecular Structure 267, 135 (1992).
41 "Dissociative Electron Attachment to NH3, NH2OH, NH2NH2 and NH2CH3" T. Yalcin and S. Suzer, Journal of Molecular Structure 266, 353 (1992).
42 "Combined IR and Mass Spectroscopic Analysis of Evolved Gases During Pyrolysis of Polymers", T. Yalcin, U. Akbulut and S. Suzer, Macromolecular Reports A30, 55 (1993).
43 "Conducting Polymers of Aniline II. A composite as a gas sensor", S. Dogan, U. Akbulut, T. Yalcìn, S. Suzer and L. Toppare, Synthetic Metals 60, 27-30 (1993).

44- "Determination of Electron Affinity of Phenyl Radical by Dissociative Electron Attachment Technique", J. Hacaloglu, Alec Gaines and S. Suzer, Organic Mass Spectrometry 28, 285 (1993).
45- "Characterization of Degradation Products of Polyethylene Oxide by Pyrolysis Mass Spectrometry" M.M. Fares, J. Hacaloglu and S. Suzer, European Polymer Journal, 30, 845 (1994).
46- "A Study of the Chemiionization Reactions of Ca, Sr, and Ba with O2(X32g-)", A.W. Shaw, J.M. Dyke, V. Zengin and S. Suzer, Chemical Physics, 179, 455 (1994).
47- "Analysis of Polymers Using Evolved Gas and Direct Pyrolysis Techniques", M.M. Fares, T. Yalcin, J. Hacaloglu, A. Gungor and S. Suzer, Analyst, 119, 693 (1994).
48- "A Conducting Composite of Polypyrrole I: Synthesis and Characterization", F. Selampinar, U. Akbulut, S. Suzer and L. Toppare, Synthetic Metals 62, 201 (1994).
49- "A Conducting Composite of Polypyrrole II: As a Gas and Temperature Sensor", F. Selampinar, L. Toppare, U. Akbulut, T. Yalcin and S. Suzer, Synthetic Metals 68, 109 (1995).
50- "Study of visible photoluminescence from thin SiOx films grown by low temperature Plasma Enhanced Chemical Vapor Deposition", F.N. Timofeev, A. Aydýnlý, R. Ellialtýoðlu, S. Süzer, M. Güre, K. Türkoðlu, V.N. Mihajlow and I.N. Timofeev, Sov. Tech. Phys. Lett. 20, 51 (1994).
51- "Study of thin SiO 2 films grown by low temperature Plasma Enhanced Chemical Vapor Deposition", F.N. Timofeev, K. Bozkurt, M. Güre, A. Aydýnlý, R. Ellialtýoðlu, S. Süzer and K. Türkoðlu, Sov. Tech. Phys. Lett. 20, 79 (1994).
52- "A Photoelectron Spectroscopic Investigation of Conducting Polypyrrole-Polyamide Composite Film", S. Suzer, L. Toppare, G. C. Allen and K. R. Hallam, Journal of Molecular Structure 349, 243 (1995).
53- "High-Voltage Optical Emission in BinaryGaseous Mixtures of N2", V. Zengin, A. Gökmen, S. Dinçer and S. Suzer, Journal of Molecular Structure 349, 17 (1995).
54- "Electron Spectroscopic Investigation of CdS and CdTe Electrochemically Coated on Glass", S. Suzer, S. Kutun, F. Kadýrgan, Fresenius J. Anal. Chem. 355, 384 (1996).
55- "X-Ray Photoelectron Spectroscopic Investigation of Conducting Polymer Blends", S. Suzer, L. Toppare, K.R. Hallam, G.C. Allen, Fresenius J. Anal. Chem. 355, 387 (1996).
56- "FTIR Studies of Vitamin E-Cholesterol-DPPC Membrane Interactions in CH2 region", F. Severcan, U. Baykal, S. Suzer, Fresenius J. Anal. Chem. 355, 415 (1996).
57- "Electron Spectroscopic Investigation of Sn Coatings on Glasses", S. Suzer, T. Voscoboinikov, K.R. Hallam, G.C. Allen, Fresenius J. Anal. Chem. 355, 654 (1996).
58- "Pyrolysis Mass Spectrometric Analysis of Styrene-Butadiene Block and Random Copolymers", J. Hacaloðlu, T. Ersen, N. Ertuðrul, M. M. Fares and S. Suzer, European Polymer Journal 33, 199-203 (1997).
59- "Electron Spectroscopic Investigation of Polymers and Glasses" S. Suzer Pure and Applied Spectroscopy 69, 163-168 (1997).
60- "XPS and in-site IR Investigation of Ru-SiO2 Catalyst", S. Sayan, S. Suzer, D. O. Ozbay, J. Molecular Structure 410-411, 111-114 (1997).
61- "Characterization of Surfaces of Various Polymers by Electron Spectroscopy", S. Suzer, J. Molecular Structure 410-411, 161-164 (1997).
62- "An investigation on the optimization of electrochemically pigmented aluminum oxide selective collector coatings", F. Kadýrgan, H.M. Sohmen, I.E. Ture, S. Suzer, J. Wertherit, A. Yazar, Renewable Energy 10, 203-206 (1997).
63- "XPS Characterization of Au Collected on Atom Trapping Silica for AAS", S. Suzer, N. Ertas, S. Kumser, O.Y. Ataman, Applied Spectroscopy 51, 1537-1539 (1997).
64- "Characterization of Denture Acrylic Resin Surfaces Modified by Glow Discharge" S. Suzer, N. Ozden, F. Akaltan, G. Akovalý, Applied Spectroscopy 51, 1741-1744 (1997).
65- "Surface Characterization of the Hydroxy Terminated Poly(-Caprolactone)/Poly(Dimethylsiloxane) Triblock Copolymers by ESCA and Contact Angle Measurements" H.Y. Erbil, B. Yasar, S. Suzer, B.B. Baysal, Langmuir 13, 5484-5493 (1997).
66- "Spectroscopic Characterization of Al2O3-Ni Selective Absorbers for Solar Collectors", S. Suzer, F. Kadýrgan, H.M. Sohmen, A.J. Wetherilt, I.E. Ture, Solar Energy Materials and Solar Cells 52, 55-60 (1998).
67- "Sorption Studies of Cs+ and Ba2+ Cations on Magnesite", T. Shahwan, S. Suzer and H.N. Erten, Applied Radiation and Isotopes 49, 915-921(1998).
68- "Composition of 1-Ray Induced Triethoxyvinylsilane-Methyl Methacrylate Copolymers Determined by XPS", T. Çaykara, O. Güven, Þ. Süzer, Polymer 39, 5269-5271(1998).
69- "Spectroscopic Investigation of Onset and Enhancement of Electrical Conductivity in PVC/PANI Composites and Blends by 1-Ray or UV Irradiation", U.A. Sevil, O. Güven ans S. Süzer, J. Phys. Chem B 102, 3902-3905 (1998).
70-“Electrodeposited black cobalt selective solar absorber films and their characterization” F. Kadirgan, S. Suzer, M. Sohmen and D. Gobelek, Renewable Energy 16, 2304-2306 (1998).
71- “Electrodepoition of Cd, Te, CdS and CdTe on Platinum and ITO Glass” F. Kadirgan, S. Kutan and S. Suzer, Annali di Chimica 88, 705-718 (1998).
72- "XPS Charecterization of Co and Cr Pigmented Copper Solar Collectors", S. Suzer, F. Kadirgan and H.M. Sohmen, Solar Energy Materials and Solar Cells 56, 183-189 (1999).
73- “FTIR characterization of Ru/SiO2 catalyst for ammonia synthesis” S/ Sayan, M. Kantcheva, S. Suzer and D.O. Uner, J. Molecular Structure 480-481, 241-245 (1999).
74- “XPS investigation of SiOx and SiOxNy overlayers”, O. Birer, S. Sayan. S. Suzer and A. Aydinli, J. Molecular Structure, 480-481, 611-614 (1999).
75- “XPS and IR Characterization of manganese ions deposited on alumina” M. Kantcheva, M.U. Kucukkal and S. Suzer, J. Molecular Structure 482-483, 19-22 (1999).
76- “UV-Vis, IR and XPS analysis of UV induced changes in PVC composites” O. Birer, S. Suzer, U.A. Sevil and O. Guven, J. Molecular Structure 482-483, 515-518 (1999).
77-"X-ray Photoelectron Spectroscopic Charecterization of Au, Bi and Mn Collected on Atom Trapping Silica for AAS", S. Suzer, N. Ertas, S. Kumser and O.Y. Ataman, Applied Spectroscopy, 53, 479-482 (1999).
78- "Pyrolysis Mass Spectrometric Analysis of Styrene-Isoprene-Styrene Copolymer", J. Hacaloðlu, M. M. Fares and S. Suzer, European Polymer Journal 35, 939-944 (1999)

79- “Platinum-palladium loaded polypyrrole film electrodes for the electro-oxidation of D.glucose at neutral media” I. Becerik, S. Suzer and F. Kadirgan, Journal of Electroanalytical Chemistry 476, 171-176 (1999).
80- “XPS and Water Contact Angle Measurements on Aged and Corona-Treared PP”, S. Suzer, A. Argun, O. Vatansever and O. Aral, J. Appl. Polm. Sci. 74, 1846-50 (1999).
81- “Time-related wettability characteristic of acrylic resin surfaces treated by glow discharge” N. Ozden, F. Akaltan, S. Suzer and G. Akovali, J. Prosthestic Dentistry 82, 680-684 (1999).
82- “Spectroscopic Investigation of Species Arising from CO Chemisorption on Titania-supported Manganese”, M. Kantcheva, M.U. Kucukkal and S. Suzer, J. Catal. 190, 144-156 (2000).
83- “Doping of 2-Cl-PANI/PVC by -rays and e-Beams”, U.A. Sevil, O. Guven, O. Birer and S.γExposure to UV, Suzer, Synthetic Metals 110, 175-179 (2000).
84- “Reductive Deposition of Au3+(aq.) on Oxidised Silicon Surfaces” S. Suzer and O. Dag, Canadian Journal of Chemistry 78, 516-519 (2000).
85- “XPS Investigation of X-Ray Induced Reduction of Metal Ions”, S. Suzer, Applied Spectroscopy 54, 1716-18 (2000).
86- “UV-Induced Acid-Base Chemistry within the PVC Matrix”, O. Birer and S. Suzer, Polymer 42, 1833-35 (2001).
87- “UV-Induced Electrical and Optical Changes in PVC-Blends”, S. Suzer, O. Birer, A.U. Sevil, and O.Guven, Chemical Monthly 132, 185-192 (2001).
88- “Electrochemical and XPS Investigation of corrosion behaviour of a low carbon steel in the presence of FT2000 inhibitor”, F. Kadirgan and S. Suzer, Journal of Electron Spectroscopy and Rel. Phen. 114-116, 597-601 (2001).
89- “Deposition and Stability of Metal Ions on Oxidized Silicon Surfaces: Electrochemical Correlation” S. Suzer, Journal of Electron Spectroscopy and Rel. Phen. 114-116, 1151-1154 (2001).
90- “Electrooxidation of metanol on doped polypyrrole films in acidic media” I. Becerik, S. Suzer, F. Kadirgan, Journal of Electroanalytical Chemistry 502, 118-125 (2001).
91- “Modification of Polyolefins with Silicone Copolymers. I. Processing Behavior and Surface Characterization of PP and HDPE Blended with Silicone Copolymers”, I. Yilgor, E. Yilgor, and S. Suzer, Journal of Applied Polymer Science 82, 1625-1634 (2002).
92- “Soft X-ray Photoemission Studies of the HfO2/SiO2/Si System”, S. Sayan, E. Garfunkel, and S. Suzer, Applied Physics Letters, 80, 2135-37 (2002).
93- “Formation of Alkylsilane Based Monolayers on Gold”, T.M. Owens, K.T. Nicholson, M.M. Banaszak Holl, and S. Suzer, Journal of American Chemical Society, 124, 6800-6801 (2002).
94- “Oxygen Plasma Modification of Poly(3-hydroxybutyrate-co-3-hydroxyvalerate) Film Surfaces for Tissue Engineering Purposes”, Journal of Applied Polymer Science, accepted (2002).
95- “Soft X-ray Photoemeission Stdies of Hf Oxidation”, S. Suzer, S. Sayan, M.M. Banaszak Holl, E. Garfunkel, Z. Hussain, and N.M. Hamdan, Journal of Vacuum Science and Technology A, accepted (2002).
96- “X-ray Photoemission Studies of Alkylsilane Based Monolayers on Gold”, T. M. Owens, S. Suzer, and M.M. Banaszak Holl, J. Phys. Chem. B (submitted August 2002).
97- “XPS Studies of SiO2/Si System under External Bias”, B. Ulgut, and S. Suzer, J. Phys. Chem. B, (submitted August 2002).