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FUAT BAYRAKÇEKEN, Ph.D.

DISTINGUISHED PROFESSOR OF ELECTRONIC SPECTROSCOPY
YEDİTEPE UNIVERSITY, HEAD, DIVISION OF OPTICAL SPECTROSCOPY,

EDUCATION

Ph. D. Degree in Electronic Spectroscopy, London University.

Special Courses on Laser Engineering, University of Massachusetts, Dept.
of EEE.

M. S. Degree in Engineering Physics, majoring in Electronics, Ankara
University.

B. S. Degree in Engineering Physics, Ankara University.

B. S. Degree in Applied Mathematics, Ankara University.

TEACHING EXPERIENCE

Optoelectronics, Quantum Electronics, Microelectronic Devices,
Electromagnetic

Waves, Electronic Spectroscopy, Optical Fiber Communications,
Photochemistry,

Nuclear Medicine, Forensic Sciences, Materials Science, Differential
Equations.

RESEARCH EXPERIENCE

High resolution electronic spectroscopy, Laser induced fluorescence, Time
of flight mass spectroscopy, Hole-burning and optical storage, Optical
antennas, Raman spectroscopy,

Flash photolysis, Free radicals, Quantum communications, IR -
Spectroscopy.

WORKED AT THE UNIVERSITIES AND RESEARCH CENTERS

Massachusetts Institute of Technology, University of Massachusetts, Suffolk University,
Notre Dame University, Texas University, City University of New York, Boston College, Amherst College, Military Engineering School, Ankara-Turkey,
US-Army Research and Development Command, Natick-MA, USA, London University,
Royal Society of London, Max-Planck Institute for Spectroscopy, Max-Planck Institute
for Photochemistry, Helsinki University, Middle East Technical University, Ankara
University, HNU- High Tech. Industrial Electronics-USA, Philips Lamp Industry-Holland, MTA-Institute of Turkey, Turkish-Army Research Center, Yeditepe Univ.

HONORS AND AWARDS

NATO-Advanced Research Grants : 1977-1978-1979-1981-1995-1996.
FULBRIGHT Teaching and Research Awards at MIT and Suffolk University.
TÜBİTAK Advanced Research Projects Grant 1979, at Royal Society of London.
Millenium Medal-2001, Leaders for the new Century Medal-2001,ABI-USA.
Who's Who-Trophy of Excellence in Electronic Spectroscopy, 2000, ABI-USA. American Medal of Honor in Optoelectronics, 2002, ABI-USA.
Distinguished Professor of Spectroscopy of BWW-Society, 2003-USA, IBC's Top 100 Distinguished Scientist Medal, 2006. GOLD MEDAL FOR TURKEY, 2007, ABI-USA. The World's Most Respected Experts on Spectroscopy 2006 USA, New Century Award, The Global-500 in the World, Baron's Who is Who (USA), Outstanding Scientist of the 21st Century Medal, Int. Biog. Center-England, Research Board of Advisors-2003, ABI-USA, International Scientist of the year 2006, Int. Biog. Center-England.

DISCOVERIES

Bayrakçeken – type (B-Type) delayed fluorescence mechanism.
New absorption bands for : Benzyl, α -chloro-benzyl, and Anilino radicals.
New absorption and emissin lines for silicon dioxide in UV-C.
Non-fading Laser-dyes, Visible blind UV-Detectors, Silicon dioxide Lasers in UV-C
Solid State Undoped Fused Silica Laser

CHAIRS

Dean, Faculty of Arts and Sciences, Middle East Technical University.
Chairman, Department of Theoretical Chemistry, Middle East Technical University.

Chairman, Department of Engineering Physics, Ankara University, and
Founder of the
Department of Electronics Engineering, Ankara University, Faculty of Engineering.

MEMBERSHIPS

Optical Society of America, OSA
American Photobiology Society, USA
Sigma Xi-USA
New York Academy of Sciences, USA
Turkish Engineering Society
Turkish Spectroscopy Society

INVITED PROFESSIONAL LECTURES : INTERNATIONAL

SECOND INTERNATIONAL CONFERENCE ON BIOMEDICAL SPECTROSCOPY
5-8 July 2003, London, England
Invited lecture on : High resolution electronic spectroscopy of organic compounds

INVITED PROFESSIONAL LECTURES : NATIONAL

SECOND NATIONAL CONFERENCE ON MOLECULAR PHYSICS
9-11 September 1998, Ankara Turkey
Invited lecture on : Stark hole-burning and optical data storage

CURRENT RESEARCH

High resolution electronic spectroscopy , (UV-Visible – IR)
Laser-induced excited state properties
Quantum electronic devices (Solid State Lasers)
Photochemistry (UV-Visible, IR and Raman)
Flash and Laser Flash Spectroscopy (UV-Visible - IR)
Optical materials, for Optical Fiber Communications
Raman spectroscopy

EDITOR

1. Prof. Dr. Eng. Fuat Bayrakçeken, SENIOR EDITOR,
Asian Journal Spectroscopy.
2. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Optical Fiber Technology.
3. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Optics-A, Pure and Applied Optics.
4. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, IOP- Electronic Journals, Measurement Science and Technol
5. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Turkish Spectroscopy Society.
6. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Middle East Technical University, Journal of Pure and Applied
Sciences.
7. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Spectrochimica Acta Part A, Molecular and Biomolecular
Spectroscopy.
8. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Chinese Clinical Medicine.
9. Prof. Dr. Eng. Fuat Bayrakçeken, SENIOR EDITOR,
Asian Journal of Materials Science.
10. Prof. Dr. Eng. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Physics - D, Applied Physics, IOP Publishing.
11. Prof. Dr. Fuat Bayrakçeken, Member of Editorial Advisory Board,
Referee, Journal of Sensor Letters.

SELECTED PUBLICATIONS IN DIFFERENT FIELDS

(A) LASER FLASH SPECTROSCOPY

1. A Laser induced excited state properties of rubreneperoxide in solution, *Journal of Luminescence*, 29 (1984) 111.
2. Excited state properties of 5H-dibenzo(a,d)cycloheptene, *Journal of Luminescence*, 21 (1980) 239.
3. A new type of delayed fluorescence of rubrene in solution, *Journal of Luminescence*, 54 (1992) 29.
4. Laser-induced lowest triplet state properties of dibenzothiophene in solution, *Spectroscopy Letters*, 30 (7) (1997) 1279.
5. Laser-induced excited state properties of 5H-dibenzo(a,d)cyclohepten-5-one, *The Japan Society for Analytical Chemistry*, 15 (1999) 1.
6. Laser-induced excited state properties of 5H-dibenzo(a,d)cyclohepten-5-ol, *Journal of Indian Chemical Society*, 76 (1999) 487.
7. Structure elucidation of Laser-dye coumarin-540A by joint application of x-ray diffraction, x-ray fluorescence, prompt fluorescence, UV and visible spectroscopy, *Spectrochimica Acta Part-A*, 67 (2007) 762.
8. Laser-induced temperature dependent triplet state lifetime of rubreneperoxide, *Spectrochimica Acta Part-A*, 68 / 5 (2007) 1388-1392.
9. Singlet-Singlet intermolecular optical energy transfer from naphthalene to benzo-phenone in the vapor phase, *Spectrochimica Acta Part-A*, 71 (2008) 572-577.
10. Optical properties and chemical behavior of Laser-dye coumarin-500 and the influence of atmospheric corona discharges, *Spectrochimica Acta Part-A*, *Spectrochimica Acta Part-A*, 72 (2009) 254-259.

(B) FREE RADICALS

1. Flash photolysis of 2-methylbut-1-ene, *Journal of Chemical Society, Faraday Transactions I*, 69 (1973) 228.
2. A flash photolytic study of the benzyl and α -chlorobenzyl radicals, *Journal of Chemical Society, B* (1970) 691.
3. High resolution electronic absorption spectra of anisole and phenoxy radical, *Spectrochimica Acta Part-A*, 59 (2003) 135.
4. High resolution discrete absorption spectrum of α -methallyl radical in

the vapor

phase, *Spectrochimica Acta Part-A*, V.65, No:1(2006) 143.

5. A new absorption band for anilino radical,
METU Journal of pure and applied sciences, 5 (2) 1972) 177.
6. High resolution electronic absorption spectra of aniline, anilino and silicon dioxide,
Spectrochimica Acta Part-A, 59 (2003) 2785.
7. Spectral image analysis for the absorption bands of the β -methallyl free radical in
the vapor phase, *Spectrochimica Acta Part-A*, 67(2007) 1276-1280.
8. High resolution electronic absorption and extinction coefficients of the allyl radical,
Spectrochimica Acta Part-A, 59 (2003) 1663.
9. Highly sensitive detection of benzyl free radical in the vapor phase,
Spectrochimica Acta Part-A, 68 (2007) 139.
10. High resolution discrete absorption spectrum of α -methallyl free radical in the vapor
phase, *Spectrochimica Acta Part-A*, 65 (2006) 143.
11. High resolution electronic absorption spectra of anisole and phenoxyl radical,
Spectrochimica Acta Part-A, 59 (2003) 135.
12. High resolution absorption spectrum of dianilino in the vapor phase,
Spectrochimica Acta Part-A, 71/5 (2009) 2026-2029.

(C) ENERGY TRANSFER

1. Electronic energy transfer studies of pyrazine,
Journal of Molecular Structure, 61 (1980) 115.
2. Peta-Hertz excitation spectroscopy of an optical antenna, optical transmitter-receiver,
Spectrochimica Acta Part-A, 61 (2005) 2109.
3. Radiative electronic energy transfer-time studies of naphthalene-biacetyl system by
one and two photon excitation, an optical antenna mechanism,
Spectrochimica Acta Part-A, 61 (2005) 1069.
4. Triplet-triplet energy transfer from naphthalene to biacetyl in the vapor phase,
Spectrochimica Acta Part-A, 65 (2006) 27.
5. Radiative electronic energy transfer-time studies of naphthalene-biacetyl system by
one and two- photon excitation, and optical antenna mechanism,
Spectrochimica Acta Part-A, 61 (2005) 1069.
6. Intermolecular cross energy transfer system of coumarin-benzophenone in solution,
Asian Journal of Spectroscopy, 12 (2008) 87-97.
7. Triplet-Triplet optical energy transfer from benzophenone

to naphthalene in the

Vapor phase, *Spectrochimica Acta Part-A*, 71/2 (2008) 603-608.

8. Intermolecular cross energy transfer system of coumarin-benzophenone in solution,

Asian Journal of Spectroscopy, 12 (2008) 87-97.

(D) MASS SPECTROSCOPY

1. Threshold energy in the abstraction reaction between hydrogen atoms and propane,

Journal of Chemical Society, Faraday Transactions I, 4 (1976) 1058.

2. Reaction of fast hydrogen atoms with ethane,

Journal of Physical Chemistry, 75/6 (1971) 841.

3. Reaction of hydrogen atoms of high translational energy with ethane,

Journal of Chemical Society – A (1971) 2646.

4. Quadrupol type mass spectrometric study of the abstraction reaction between

hydrogen atoms and ethane, *Spectrochimica Acta Part-A*, 69/2 (2008) 483-485.

5. Reactions of high translational energy hydrogen atoms with propane,

Spectrochimica Acta Part-A, 69/1 (2008) 222-224.

(E) THEORETICAL CHEMISTRY

1. Specific heat functions for the orthorhombic Nd³⁺ in scheelite type of crystals,

Spectrochimica Acta Part-A, 66 (2007) 1291.

2. Theoretical investigations of the specific heat functions for the orthorhombic Nd³⁺

centers in some crystals, *Spectrochimica Acta Part-A*, 66 (2007) 462.

3. Autoionization probability calculations of helium atoms,

Journal of Spectroscopy Society, 4/2 (1978) 56.

4. Theoretical investigations of the specific heat functions for the orthorhombic Nd³⁺

in host crystals, *Asian Journal of Spectroscopy*, 9 (2005) 49.

(F) PHOTOCROMISM

1. Photochromism of 2-(2-4-dinitrobenzyl)-pyridine in solution,

Chimica Acta Turcica, 4 (1976) 81.

2. Photochromism and thermochromism of trimethylindolinobenzospiropyran in

methanol,

Asian Journal of Spectroscopy, 7 (2003) 137.

3. Photophysical properties and photochemical rearrangement of single crystal

salicylideneaniline in solution,
Spectrochimica Acta Part-A, 66/1(2007) 184-187.

(G) NUCLEAR MEDICINE – γ – RAY SPECTROSCOPY

1. The optimum acquisition processing by gamma cameras,
Journal of Medical Sciences, 15 (1991) 342.

(H) RAMAN SPECTROSCOPY

1. Anti-Stock Raman scattering of triptycene in solution,
Asian Journal of Spectroscopy, 7 (2003) 125.
2. Electronic absorption and Raman resonance scattering of spectroscopically pure SiO₂
Spectrochimica Acta Part-A, 56 (2000) 1901.
3. Stokes and Anti-Stokes Raman scattering of 5H-dibenzo (a,d) cyclohepten-5-ol,
Spectrochimica Acta Part-A, 67 (2007) 582.
4. Anti-Stokes Raman scattering of 5H-Dibenzo(a,d)cyclohepten-5-one,
Spectrochimica Acta Part-A, 56/6 (2000) 1117-1121.

(I) DELAYED, PROMPT AND RESONANCE FLUORESCENCE

1. High resolution B-type delayed fluorescence of dibenzanthracene in PMMA,
Spectroscopy Letters, 29(8) (1996) 1579.
2. B-type delayed fluorescence of rubreneperoxide in solution,
Spectroscopy Letters, 29(1) (1996) 151.
3. Highly sensitive detection of optical discrete absorption and resonance fluorescence of fused silica in the far ultraviolet,
Spectrochimica Acta Part-A, 60 (2004) 923.
4. A new type (Bayrakçeken-type) delayed fluorescence studies of rubrene by two-photon excitation,
Photochemistry and Photobiology, S (1988)17.
5. Highly sensitive detection of discrete absorption and B-type delayed fluorescence of dibenzanthracene in PMMA,
Spectrochimica Acta Part-A, 60 (2004) 3033.
6. Resonance fluorescence studies of spectroscopically pure SiO₂ ,
Journal Indian Chemical Society, 77 (2000) 445.
7. Singlet-Singlet intermolecular optical energy transfer from naphthalene to benzophenone in the vapor phase, Spectrochimica Acta Part-A, (2008) in press.

8. Determination of aluminium in rock samples by energy dispersive fluorescence
Spectroscopy, *Spectrochimica Acta Part-B*, (2008) Submitted.
9. Determination of nanostructured porous silicon in rock samples by energy dispersive fluorescence spectroscopy, *Asian Journal of Spectroscopy*, 12 (2008) 131-135.
10. A novel and the new type of giant coherent superfluorescence transitions for the two-level system of spectroil quartz, *Asian Journal of Spectroscopy*, 12(2008)75-81
11. Electronic spectra and high resolution B-type delayed fluorescence of salicylidene-
m-bromo-aniline in hexane, *Spectroscopy Letters*, (2008) in press.
12. Determination of nanostructured porous silicon in rock samples by energy dispersive fluorescence spectroscopy, *Asian Journal of Spectroscopy*, 12 (2008) 107-111.

(J) HOLE BURNING

1. Stark hole-burning spectroscopy of cresylviolet perchlorate in amorphous hosts,
Spectroscopy Letters, 32(1) (1999) 125.

(K) TRIPLET-TRIPLET ABSORPTIONS

1. Optical T-T absorption of salicylidene-p-bromo aniline in solution,
Asian Journal of Spectroscopy, 6 (2002) 77.
2. Triplet-triplet energy transfer from naphthalene to biacetyl in the vapor phase,
Spectrochimica Acta Part-A, 65 (2006) 27.
3. Triplet-triplet absorption spectrum of 1,2,3,4-dibenzanthracene in EPA,
Asian Journal of Spectroscopy, 7/1 (2003) 11.
4. Triplet-triplet absorption of salicylidene-p-toluidine in solution,
Asian Journal of Spectroscopy, 7 (2003) 93.
5. Temperature effects on laser-induced triplet state lifetimes of rubreneperoxide in
solution, *Asian Journal of Spectroscopy*, 4 (2000) 177.
6. Triplet-triplet absorption of trimethylindolinobenzospiropyran in solution,
Asian Journal of Spectroscopy, 10, No:3&4 (2006) 125-128.
7. Optical T-T absorption of salicylidene-p-toluidine in solution,
Spectrochimica Acta Part-A, 68/5 (2007) 1388-1392.
8. T-T energy transfer from naphthalene to biacetyl in the vapor phase,
Spectrochimica Acta Part-A, 65 (2006) 143.

9. T-T optical energy transfer from benzophenone to naphthalene in the vapor phase,
Spectrochimica Acta Part-A, (2008) in press.

(L) PHOTOCHEMISTRY, PHOTOPHYSICS

1. Photophysical and photochemical study of Laser-dye Coumarin-481 and its photoproduct,
Spectrochimica Acta Part-A, 61 (2005) 983.
2. Spectroscopic study of p-methoxy-styrene in aqueous media,
Asian Journal of Spectroscopy, 7 (2003) 15.
3. Photophysical properties of 5H-dibenzo(a,d)cycloheptene in solution,
Journal Indian Chemical Society, 78 (2001) 234.
4. Photochemical rearrangement of salicylideneaniline in solution,
Asian Journal of Spectroscopy, 6 (2002) 119.
5. Photochemical rearrangement and the kinetics of the fading reaction of salicylidene anilines in solution,
Journal of pure and applied sciences, 11 (1978) 33.
6. Photophysical properties of 5H-dibenzo (a,d) cyclohepten-5-one in different solutions,
Spectrochimica Acta Part-A, 56 (2000) 1117.
7. Photophysical properties and photochemical rearrangement of single crystal salicylideneaniline in solution, Spectrochimica Acta Part-A, 66/1 (2007) 184-187.
8. Electronic spectra and excited state properties of triptycene in solution,
Journal of Indian Chemical Society, 78 (2001) 298.
9. Electronic spectra and high resolution B-type delayed fluorescence of salicylidene-m-Bromo-aniline in hexane, Spectroscopy Letters, (2008) in press.
10. Structure elucidation of cresylviolet perchlorate in polyvinylbutyral by the joint Application of IR, FTIR, Raman, UV and visible spectroscopy,
Spectrochimica Acta Part A, 68 (2007) 139.

(M) BIOMEDICAL ENGINEERING

1. In vitro, spectroscopic study of the retina of adult frog's eye,
Asian Journal of Spectroscopy, 7 (2004) 129.
2. In vitro, spectroscopic study of the retinal cells of the Anatolian honey bee,
Asian Journal of Spectroscopy, 6 (2002) 179.
3. Visual acuity in amblyopic patients under various conditions of

illumination and color

Ophtalmology , 1(1991)22.

4. Magnetic resonance studies of brain by microdensitometric measurements,

Radiology , 2 (1998) 106.

(N) EXTINCTION COEFFICIENTS

1. Extinction coefficients for α -chlorobenzyl and anilino radicals in the vapor phase,

Chemical Physics Letters, 159/1 (1989)109.

2. Extinction coefficients for the benzyl radical,

Chemical Physics Letters,74/2 (1980) 298.

3. Extinction coefficients for the β -methallyl radical,

Chemical Physics Letters, 43/1 (1976) 183.

4. High resolution electronic absorption and extinction coefficients of the allyl radical,

Spectrochimica Acta Part-A, 59 (2003) 1663.

5. Extinction coefficients and some photophysical properties of coronene in solution,

Asian Journal of Spectroscopy, 8 (2004) 9.

(O) OPTICAL ANTENNAS

1. Spectroscopic study of an optical antenna,

Asian Journal of Spectroscopy, 8 (2005) 73.

2. Sensitized phosphorescence studies of p-xylene+biacetyl system, an optical antenna,

Spectrochimica Acta Part-A, 66 (2007) 1267.

3. p-Hertz excitation spectroscopy of an optical antenna, optical transmitter-receiver

mechanism, Spectrochimica Acta Part-A, 61 (2005) 2109.

(P) PHOSPHORESCENCE

1. Sensitized phosphorescence of biacetyl in the vapor phase,

Asian Journal of Spectroscopy, (2008) in press.

2. Sensitized phosphorescence studies of p-xylene + biacetyl system, an optical

antenna, Spectrochimica Acta Part-A, 66 (2007) 1267.

(Q) SIGNAL PROCESSING , IMAGE PROCESSING

1. A simple signal processing application in flash spectroscopy, Asian Journal of Spectroscopy, 8 (2005) 63.
2. High resolution discrete optical absorption spectra of spectroscopically pure silicon Dioxide in UV-C, Asian Journal of Spectroscopy, 6 (2002) 73.
3. Spectral image analysis for the absorption bands of the β -methallyl free radical in the vapor phase, Spectrochimica Acta Part-A, 67/5 (2007) 1276-1280.

(R) SPECTRAL IMAGE ADAPTATION

1. Spectral image adaptation and visual experience of DBA/PMMA, Spectrochimica Acta Part-A, 62 (2005) 1151.
2. High resolution discrete absorption spectrum of α -methallyl radical in the vapor pase, Spectrochimica Acta Part-A, 65 (2007) 143.

(S) X-RAY SPECTROSCOPY

1. Structure elucidation of laser-dye coumarin 540A by the joint application of x-ray diffraction, x-ray fluorescence, prompt fluorescence, UV and visible spectroscopy, Spectrochimica Acta Part-A , 67 (2007) 1076.
2. Photophysical properties and photochemical rearrangement of single crystal salicylideneaniline in solution, Spectrochimica Acta Part-A, 66 (2007) 184.

(T) KINETIC

1. Kinetic of the fading reaction of salicylidene-aniline in ethanol, Communications, 20 (1973) 11.
2. Kinetic and spectroscopic study of the phenoxyl radical, Asian Journal of Spectroscopy, 6 (2002) 39.
3. Kinetics of the fading reactions of 2-(2,4-dinitrobenzyl)- pyridine in various solvents, Journal of pure and applied sciences, 5 (1972) 169.

(U) OPTICAL FIBERS

1. Highly sensitive detection of optical discrete absorption and resonance fluorescence of fused silica in the far ultraviolet, Spectrochimica Acta Part-A, 60 (2004) 923.

2. Resonance fluorescence studies of spectroscopically pure SiO₂,
Journal of Indian Chemical Society, 77 (2000) 445.
3. High resolution electronic absorption spectra of aniline, anilino and silicon dioxide,
Spectrochimica Acta Part-A, 59 (2003) 2785-2789.

(V) STOP LIGHT

1. Yotta-photon excitation spectroscopy of salicydene-m-bromo-aniline,
Spectrochimica Acta Part-A, 68/5 (2007) 1416-1420.

(Y) IR and FTIR

1. Structure elucidation of cresylviolet perchlorate in polyvinylbutyral by the joint application of IR, FTIR, Raman, UV and visible spectroscopy,
Spectrochimica Acta Part-A, 68/1 (2007) 139-142.

(Z) NEW LASERS

1. A Novel and the new type of giant coherent superfluorescence transitions for two-level system of spectroil quartz, Asian Journal of Spectroscopy, (2008) in press.
2. Superfluorescence of silicon dioxide at 250-255 nm band, Asian Journal of Spectroscopy, (2008) in press.

BAYRAKÇEKEN - TYPE DELAYED FLUORESCENCE

B – type (= Bayrakçeken-type) delayed fluorescence papers :

Fuat Bayrakceken, "A new type of delayed fluorescence of rubrene in solution", Journal of Luminescence, 54(1992) 29-33.

Fuat Bayrakceken, " High resolution B-type delayed fluorescence of dibenzanthracene in PMMA" , Spectroscopy Letters, 29 (8) (1996) 1579-1587.

Fuat Bayrakceken, "B-type delayed fluorescence of rubreneperoxide in solution" Spectroscopy Letters, 29 (1) (1996) 151-157.

Fuat Bayrakceken, " A new type (Bayrakçeken-type) delayed fluorescence studies of rubrene by two-photon excitation", *Photochemistry and Photobiology*, 5 (1988) 17.

Fuat Bayrakceken, " Highly sensitive detection of discrete absorption and B-type delayed fluorescence of dibenzanthracene in PMMA" *Spectrochimica Acta Part-A*, 60 (2004) 3033-3336.

Fuat Bayrakceken, " Laser-induced lowest triplet state properties of dibenzothiophene in solution", *Spectroscopy Letters*, 30 (7) (1997) 1279-1288.

Fuat Bayrakceken, " Stark hole-burning spectroscopy of cresyl violet perchlorate in amorphous hosts", *Spectroscopy Letters*, 32 (1) (1999) 125-137.

Fuat Bayrakçeken, "Electronic Spectra and High-Resolution B-type Delayed Fluorescence of Salicylidene-m-bromo-aniline in Hexane,