

Curriculum Vitae Dr. Said Sabbagh

PERSONAL INFORMATION

Name Said SABBAGH, Assistant Professor



Contact Information:

Tel: 00905379128624, saidabbagh@itu.edu.tr, saidabbagh@outlook.com

Energy Institute, Istanbul Technical University, ITU Maslak Campus, 34469 Maslak - ISTANBUL

Additional Information:

Sex: Male | Date of birth 01/01/1964, Aleppo | Nationality: Turkish. Father name: MOUHAMAD, Mother Name: NAJOUR, WORK PERMIT / COUNCIL OF HIGHER EDUCATION. DOCUMENT NUMBER 005847.

WORK EXPERIENCE

JUL 2016 UP TO NOW:

A visiting researcher, Nuclear Researches Division, Energy Institute, ITU Istanbul Technical University.

<https://enerji.itu.edu.tr/en/about-us/academic-staff/said-sabbagh>

OCT 2015 – AUG 2016:

Full time Lecturer and Researcher, The Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, Fatih Sultan Mehmet Vakf University FSMVU, Istanbul, TURKEY.

2014-2015:

Lecturer, Mediterranean International University – Istanbul.

2009- 2014:

- Assistant Professor & Full time Lecturer and Researcher, Department of Physics, Faculty of Science, University of Aleppo. Syria.
- Invited Lecturer, Faculty of Science at Al-Furat University.
- Lecturing for Masters Students and undergraduate students in Medical, Engineering and Radiation Physics.
- Research and supervising M.Sc. students.
- Key Responsibilities: Research, Lecturing , and Supervision.

2003-2009:

Assistant Professor of physics, teacher's college & the faculty of Science – KFU- HOFUF, Saudi Arabia. (Lecturing undergraduate and M.Sc.), Research, Supervising, Scientific club, E-learning). Head of the Science department at the Teachers college, KFU, SAUDI ARABIA 2007-2009.

1999 – 2003:

Full time Lecturer of Radiation and Nuclear Physics, Department of Physics, Faculty of Science, University of Aleppo.

1996-1999 Lecturer at Aleppo University.

EDUCATION AND TRAINING

- 1991-1996** Ph.D. in Physicomathematical Sciences: "Nuclear and elementary particles Physics 01.04.16 and theoretical physics 01.04.02 ", Kyiv National Taras Shevchenko University, Ukraine, (with the National Academy of Sciences of Ukraine, Kiev Institute for Nuclear Research). "Elastic and inelastic scattering of neutrons filtered from the reactor near the first level excitation threshold of Rhodium Rh-103, silver Ag, and gold Au-197".
- 1991** Awarded the scholarship of to complete the PhD. Course for five years in Ukraine.
- 1985-1990** Graduate-Assistant at the Department of Physics, Faculty of Science, University of Aleppo
- 1981-1985** B.Sc. in Physical and Mathematical Sciences. (Nuclear Physics), University of Aleppo, Faculty of Science, department of physics.

TEACHING EXPERIENCE

POSTGRADUATE LEVEL:

Courses:

1. "Scientific Methods of Research", 1996-2002, 2012-2014.
2. "Nuclear Reactors physics", 2003, 2010-2013.
3. Nuclear Physics I (theoretical)
- four. "Radiation Physics", 1998-2002/2013.
5. X-Rays Physics. 2010-2011

Supervised Works (Master):

- 1) The Sterilization of Children Food manufactured in Syria by Irradiation. 2012
- 2) Radiation dose Measurements in Medical Accelerators. 2012
- 3) Measurement Absorbed Internal Radiation dose Using MIRD Method 2011
- 4) Analytical studies of radiation pollutants (NORM) in the Oil industry in Syria. 2013
- 5) A Comparative Study of Inks Spectra between the Neutron Activation and Different Radiation Methods 2014.

UNDERGRADUATE LEVEL – Course:

Medical physics, essential physics, Radiation and Nuclear Physics, calculus. (ORIENTED PHYSICS)

Current Projects:

- Math and Physical Laws of Radiation Decay, NORM, Neutron Activation (INAA), and k0-method.
- Arsenic in rice and food industry by neutron activation, with TU Delft / Reactor Institute Delft, Nederland.
- RoHS, Heavy metals, and phthalates in the PVC industry, E-waste and Environment.

RESEARCH EXPERIENCE AND INTERESTS:

Alpha, Beta, Gamma, XRF, and Neutron Spectroscopies and University labs.

Research Interests:

Nuclear Techniques for Cultural Heritage Research,
Detection of the heavy elements in industry,
Radiation Applications for Health Care and Cleaner Industrial Processes and Practices,
Neutron Activation INAA,
Medical Radiation Physics & New Methods of Radioactive Isotopes Techniques,
NORM monitoring, ecological physical systems
Mono-Energetic X- rays Applications in Medicine, XRF in industry,
Co-60 Physics: Food, Wastewater, Sea water desalination by Radiation for Irrigation, and Nano filters,
E- Learning in Science (Digital library & multimedia),
History of Science in the Arabic & Islamic scientific manuscripts & Instruments.

LANGUAGE SKILLS

Mother tongue	Arabic				
Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1	C1	C1	C1	B2
RUSSIAN	C1	C1	C1	C1	B2
TURKISH	A1	A1	A1	A1	A1
GERMAN	A1	A1	A1	A1	A1
FRENCH	A1	A1	A1	A1	A1
	Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user Common European Framework of Reference for Languages				

MEMBERSHIPS

- Head of the scientific office of the International Association of Arab Academicians UAAD.
- Member of the Exams and Conferences Committees of the Department of Physics.
- Member of Society for the History of Science, Arab Scientific Heritage Institute at the University of Aleppo - Aleppo, Syria
- Member of the Islamic Manuscript Association TIMA, Cambridge, UK
<http://www.islamicmanuscript.org/directoryofmembers/peoplebyname.aspx>
- member of the Scientific Committee, International conference for Syria Education, Pre- University Stage, and in the Scientific Committee of POLYMER & NANOCOMPOSITES SYMPOSIUM, TUBITAK 1001 Project No-115R017, 21-22 February, 2018.

CONFERENCE PRESENTATIONS

Radiation Physics:

- **"A Review of the experiments, and solutions: Arsenic, Hazardous and Useful Elements in Rice by INAA and other methods"**, Seminar, Energy Institute, ITU Istanbul Technical University, **09.03.2018.**
- **Properties of the irradiated green PVC and its applications in industry and environment**, POLYMER & NANOCOMPOSITES, Symposium and Seminar, February 21-22, 2018.
<http://polen.itu.edu.tr/bitstream/11527/16709/4/22December2018.pdf>

- Turkey-MENA Nuclear Industry Congress 2015, NIC: Nuclear Industry Congress 2015 Conference & Exhibition, Istanbul. April 15-16, 2015.
- WATER SCIENCE & TECHNOLOGY ASSOCIATION, Ninth Gulf Water Conference “**Water Sustainability in the Gulf**” The Need for a Socio-Economic and Environmental Definition 22-25 March 2010, Sultanate of Oman, Conference Papers. <http://www.icwrae-psipw.org/ICWRAE5Book.pdf>
- Conference on Science Week 49 "solid and liquid waste management conference in Syria 9-11 / 11/2009 - Al-Baath University in Homs - a scientific paper: "**Methods of the Radiation Physics used in Sterilization**"- **Modern methods and technologies in waste treatment.** <http://www.mohe.gov.sy/mohe/index.php?node=5622&nid=1714&m=1>
- Fourteenth Annual Symposium “E-learning 2009” - Informatics Association - University of Aleppo, a scientific paper, 11-12 / 11/2009: **the electronic self-learning project in different sciences libraries.**

History of Science:

- Sabbagh Said, Jamal Sawwas, **The Arabic Islamic History of pre-Aspirin, Willow, Khelaf.** The 4th International Symposium Gülhane Studies, The Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, Istanbul Medical Faculty of Medical History and Ethics Department, 12, May 2018.
- **Water Quality and filters in Medieval Arabic and Islamic Manuscripts**/water summer school, The Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, 24, May 2017.
- SABBAGH Said, STARR Peter/ **Distillation and Sublimation of medicinal herbs**, III Congress of the history of Medicine, 23.05.2016. <http://www.ibtav.org/iii-congress-of-history-of-medicine/>, The Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, Fatih Sultan Mehmet Vakf University FSMVU, Istanbul, TURKEY.
- Fourth International Summer School, August, 17th - 22nd 2015, **Light and Shadow - experimental spirit**, interdisciplinary approaches and aesthetics in sciences, medicine and poetry. Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam.

PUBLICATIONS

- 1) SABBAGH S., El Mahmoudi A.S. and Al-Dakheel Y.Y. / Waste Water Sterilization by Cobalt Co – 60 for the Agricultural Irrigation: A Case Study, International Journal of Water Resources and Arid Environments 3(1): 11-18, 2014, ISSN 2079-7079, © PSIPW, 2014
https://www.researchgate.net/publication/258518983_Waste_Water_Sterilization_by_Cobalt_Co_-_60_for_the_Agricultural_Irrigation_A_Case_Study
*Principal Investigator for a project entitled “Study sterilizing of treated sewage and drinking water at Al-Hassa using gamma ray of Cobalt-60 . (Project No.90109), (2008-2009).
Funding Organization: - Deanship of Scientific Research, King Faisal University, KSA.
- 2) SABBAGH Said / Analyses of the Bio-Physical and Chemical Characteristics of Al-Khals Date Palms Sterilized by Irradiation to Substitute Fumigation Gases and Thermal Treatments. Res. J. of Aleppo Univ., Basic Sciences Series, No. 98, 2014.
- 3) SABBAGH. Said, AL-SAYED ALI Murhaf / A Comparative Study of Ball Point Pens Writing Ink Using Techniques XRF, UV-VIS, FT-IR, Res. J. of Aleppo University, Basic Sciences Series, No.98, 2014.

- 4) SABBAGH Said, AL-SAYED ALI Murhaf /Applying the Neutron Activation Analysis (NAA) without approximation theoretically and by using Matlab on ^{197}Au , Res. J. of Aleppo University, Basic Sciences Series , No.95, 2014.
- 5) SABBAGH Said / "The Influence of Radiation on the Bacteria in the Waste Water and the Sludge Plants" / Res. J. of Aleppo University. Basic Sciences Series No.86, 2012.
- 6) SABBAGH Said ALHUSSEN Safa / The NORM Radioactive Pollutants in the Plants Soil Of Petroleum Industry / Res. J. of Aleppo University. Basic Sciences Series No.85, 2012.
- 7) SABBAGH Said, Dabbagh Ahmad Ramzi, al-Fawwaz Jasem/ Theoretical and Experimental Study of the Impact of Gamma Radiation on the Chocolate Used by the Locally Food Manufacture"/ Res. J. of Aleppo University. Basic Sciences Series No.84, 2012.
- 8) Sabbagh Said, Dabbagh Ahmad Ramzi, al-Fawwaz Jasem/ The Effect of Gamma Irradiation on Powdered Milk and Biscuits in Local Food Industry/ Res. J. of Aleppo University. Basic Sciences Series No.84 , 2012
- 9) Sabbagh S., Baddour F., AlMoustafa Safwan. / The Absorbed Dose Measurements of 6Mv and 15Mv Photons Beams Using the Ionization Chamber and Tld-100/ Res. J. of Aleppo University. Basic Sciences Series No.81, 2012.
- 10) Sabbagh S., Baddour F., AlMoustafa Safwan. / 6 MV And 15 MV Photon Beams Dose Distribution Used In Radiotherapy Using Different Dosimetric Detectors/ Res. J. of Aleppo University. Basic Sciences Series No.81 , 2012.
- 11) Sabbagh S., Marco A., Chehne F., Sharbo G./Measurement of Absorbed Internal Radiation dose in Thyroid gland for adults and children (Male and Female) Using MIRD Method/ Res. J. of Aleppo University. Basic Sciences Series No.77, 2011.
- 12) Sabbagh S., Marco A., Chehne F., Sharbo G. / Measurements of the absorbed internal radiation doses in kidneys for normal and impaired renal function (male and female) using MIRD method/ Res. J. of Aleppo University. Basic Sciences Series No.75, 2011.
- 13) Sabbagh Said, Hasan Hammade /Radiation Physics Technologies for the Sterilization of treated sewage water and sludge/ Res. J. of Aleppo University. Basic Sciences Series, No.77, 2011.
- 14) Литвинський Л.Л., Кривенко В.Г., Пугач Я.В., Саббагх С. неупругого розсіяння нейтронів при енергії $E = 134$ кЕв по резус-103 // Українська фізическом журнале, 1994, т.39, вип.3. P.276-279.
L.L. Litvinskij, S. sabbagh et al // Neutron inelastic scattering at energy $E=134$ keV by Rh-103// The Ukrainian Physical journal, 1994, third edition// P.276-279.
- 15) Литвшский Л.Л, Жигалов Л.А., Кривенко В.Г., Пуртсв О.А. Саббагх О. Неупругое рассеяние нейтронов при энергией 275 коВ сорэбром, Вопр. Атомной Пауки и Техники, сер.: Ядерные Константы.- 1994.- вып.3.- с.41-44.
L.L. Litvinskij, S. sabbagh et al // INELASTIC SCATTERING OF 275 keV NEUTRONS BY SILVER Nuclear Research Institute, Academy of Sciences of Ukraine// Journal of problems for nuclear science and technology- the serial of nuclear constants, 1994, third edition, P.41-44.
http://www.iaea.org/inis/collection/NCLCollectionStore/_Public/28/055/28055820.pdf
- 16) Литвинокий Л.Л., Саббагх С., Кигалов Я.А., Кривенко В.Г. и др. Упругое и неупругов рассеяние нейтронов с анергией 134 кэВ на ^{197}Au // Вопросы Атомной Науки и Техники, сер.: Ядерные Константы,- 1994.- вып.1,- с.15-17.
L.L. Litvinskij, S. sabbagh et al. // Neutron inelastic scattering at energy $E=134$ keV by Au-197// The Journal of problems for nuclear science and technology- the serial of nuclear constants, 1994, First edition, P.15-17.

- 17) Литвинский Л. Л., Саббагх С., Шкарупа А. М. 103Rh, как потенциальный термометр s-процесса звездного нуклеосинтеза. Физика тел Солнечной системы, "КИНЕМАТИКА И ФИЗИКА НЕБЕСНЫХ ТЕЛ" (научно-теоретический журнал), 1995 г., том 11, номер 1
Litvinskij L. L., Sabbagh S., Shkarupa A. M. 103Rh as a potential thermometer of the s-process nucleosynthesis in stars. Physics of Bodies of the Solar System, Journal of kinematics and physics of cosmic bodies. 1995, vol.11, No.1, P.17-22. <ftp://ftp.mao.kiev.ua/pub/kfnt/11/1/kfnt-11-1-1995-02.pdf>
- 18) Litvinskij L.L. and S. sabbagh// The effect of nonstatistical strengthen of inelastic neutron scattering channel near the first level excitation threshold of Au-197// Nuclear physics A 586, 1995, P. 240-248. <http://adsabs.harvard.edu/abs/1995NuPhA.586..240L>,
Nonstatistical strengthening of inelastic neutron scattering by 197Au near the threshold.
<http://www.sciencedirect.com/science/article/pii/037594749400622T>
- 19) Litvinskij L.L., Sabbagh Said, Zhigalov Ya.A., Krivenko V.G. and Pugach Ya.V., Elastic and Inelastic Scattering of 134 keV Neutrons by 197Au . INDC (UKR)- 001.Distrib: G, <https://www-nds.iaea.org/publications/indc/indc-ukr-0001.pdf>

REFERENCES

1. Dr. **Peter STARR**, the Prof. Dr. **Fuat Sezgin** Research Foundation for the History of Science in Islam, Fatih Sultan Mehmet Vakf University FSMVU, Istanbul, p.starr@warwick.ac.uk
2. Dr. **Detlev Quintern**, the Prof. Dr. Fuat Sezgin Research Foundation for the History of Science in Islam, Fatih Sultan Mehmet Vakf University FSMVU, Istanbul, detlevquintern@googlemail.com
3. **Prof. Dr. Mohamed Bashir Karman**, head of Physics Department, Aleppo University. mbkarman@yahoo.com .Tel+963 93 3929503.
4. **Prof. Dr. Ahmed El-Mahmoudi**, Professor of Applied Geophysics, Water Studies Center, King Faisal University, P.O. Box 420, Hofuf, 31982, Saudi Arabia, Tel (office): (+966) (3) (5816600) Ext. (2166), Mobile): (+966) (55) (3484299) Fax: (+966) (3) (5816611), E-mails: mahmoudi@kfu.edu.sa and/or mahmoudi@mans.edu.eg Home Page: <http://www.mans.edu.eg/pcvs/10733>
5. **Prof. Dr. M. Anwar Batal**, faculty of Science, Aleppo University- Syria. mbatal2001@yahoo.com .Tel: +963967859200.
6. **Prof. Dr. Alaadin Ahmed Darwish**, Professor of physics, Physics department, Faculty of science, Alexandria University, Egypt. alaadin_darwish2000@yahoo.com , Tel 00201001812312.
7. **Caesar Viazminsky**, Education Management Professional, Royal Oak, Michigan Education Management. kfizmins@iit.edu
8. **Dr. Jalal Soda**, Physics Department, Faculty of Science Aleppo University, Syria, Tel:00963944901738 , Jallsoda002@gmail.com
9. **Dr. Zain Yamani**, zhyamani@kfupm.edu.sa, KFUPM, SA. <http://www.kfupm.edu.sa/fis/FacultyInfo.aspx?id=1910026> , +966504608515

I certify that the statements made in this Curriculum Vita are true and complete to the best of my Knowledge.

Dr. Said Sabbagh