Curriculum Vitae for
Dr. Walid Tawfik Younes Mohamed

PERSONAL DATA

Name	Walid Tawfik Younes Mohamed
Date & Place	6th July 1969, Cairo.
Marital	Married
Home Address	45, Borhan St., Helwan, Cairo, Egypt.
Present Office address	National institute of laser enhanced sciences NILES, Cairo University, Gamaa St., P.Code 12613, Giza-Egypt. Cell:+201007869651 walid_tawfik@niles.edu.eg; walid_tawfik@hotmail.com https://www.researchgate.net/profile/Prof_Walid_Tawfik2 linkedin.com/in/walidtawfik
Nationality	Egyptian
Sex	Male
No. of	3 Children (16 years old, 13 years old, 9 years old).
Passport No.	**A10112271 with American VISA B1/B2 valid till 2020**
Present Job	Associate Professor, Department of Laser Applications in Metrology, Photochemistry and Agriculture (LAMPA), NILES, Cairo University.
Publication Citation H-index ResearcherID	**621** **9** (google scholar) F-5109-2013

RESEARCH INTERESTS:

My research plans are devoted to optics and photonics: linear and nonlinear interactions of laser light and matter using time-resolved spectroscopy for laser-pulse durations from nanosecond to few-cycle. The studies include the application of laser-induced breakdown spectroscopy (LIBS) used in the field of analytical spectroscopy and plasma characterization, in addition to ultrafast nonlinear phenomena due to propagation of ultrafast pulses in nonlinear medium and how the interactions can be exploited for improved material characterization. The prospective plans aim to reach attosecond streaking to study transient absorption spectroscopy of ultrafast electron motion.

ACADEMIC QUALIFICATIONS

Degree	Institution	Major, Minor	Period
Bachelor	Cairo University, Cairo, Egypt.	Physics	1/9/1987- 15/5/1992
Master	Cairo University, Cairo, Egypt.	Physics, laser physics, Thesis titled "Laser propagation in water"	1/9/1993 – 15/5/1996
PhD	Cairo University, Egypt (the experiment part and data collection done at TU, Munich, Germany).	Physics, laser physics, Thesis titled "Study of photon molecular interaction dynamics using short laser pulses " ZEKE Spectroscopy"	1/9/1996 – 15/07/2000

Skills

1-Languages

English Excellent German basic level, Arabic (Mother tongue language), French (Basic).

2-PROFESSIONAL EXPERIENCE:

period	position	duty
May 2017-now	Full Professor– at the department of Laser Applications in Metrology, Photochemistry and Agriculture (LAMPA), NILES, Cairo University, Cairo, Egypt.	Teaching atomic physics, laser physics, plasma physics, laser spectroscopy, ultrafast phenomena and femto-physics for graduate students + supervision of PhD and master students on laser spectroscopy applications studies.
2011 – Sep 2016	Associate Professor, Department of Physics of Physics and Astronomy King Saud University (KSU) , Saudi Arabia.	Teaching physics related subjects for undergraduates and graduate students + supervision of master students + PI of ultrafast laser project
2010 - 2011	Research associate (Associate Prof.) Department of Physics, Pohang University of Science and Technology POSTECH , Pohang, south Korea.	Preform research on self-channeling of gas jets using 10 Hz 30 femtosecond laser pulses.
2008 – 2016	Associate professor –sabbatical leave - at the department of Laser Applications in Metrology, Photochemistry and Agriculture (LAMPA), NILES, Cairo University, Cairo, Egypt.(on sabbatical leave)	Teaching laser physics and laser spectroscopy for graduate students + Supervision of PhD and master students on LIBS applications studies.
2003-2009	Assistant Prof. - academic staff member at the department of Physics, Faculty of Education for girls, Qurayate, Algouf university, Kingdom of Saudi Arabia.	Teaching physics related subjects for undergraduates students.
2000 - 2003	Lecturer- at the department of Environmental, Photo Chemical and Agriculture Laser applications, NILES, Cairo University, Cairo, Egypt.	Teaching laser physics and laser spectroscopy for graduate students + perform research studies on LIBS applications.
1999 - 2000	Assistant Lecturer- at the department of Environmental Photo Chemical and Agriculture Laser applications, NILES, Cairo University, Cairo, Egypt.	Teaching experimental laser physics for graduate students.
1996 - 1999	Physics Specialist- at the department of Environmental Photo Chemical and Agriculture Laser applications, NILES, Cairo University, Cairo, Egypt.	Maintenance laser equipment + teaching experimental laser physics for graduate students.

Scientific collaborations

period	group	mission
(2015) June-August	visiting professor at professor Rick Trebino group for ultrafast lasers, School of physics, Georgia Institute of Technology, University, Atlanta, Georgia USA.	Study nonlinear propagation of ultrafast pulses in nonlinear media and stablish simulations of FROG for 4 fs laser pulses during summer.
(2014) July-August	Visiting Scientist at Takayoshi Kobayashi Lab.(University of Electro-Communications, Tokyo, Japan).	study photochromic molecule using developed ultrafast NOPA system.
(2014) April	short visiting scientist at prof. Noureddine Melikechi (Delaware State University, Dover, DE 19901, USA).	initiation of collaboration in femtosecond - LIBS biomedical applications.
(2012) June - July	visiting scientist at prof. Ferenc Krausz Group at Max-Planck-Institut fuer Quantenoptik (Garching, Germany).	Setup and preparation of an attosecond beamline at max-planck to be transferred to KSU.

Teaching Experience:

Undergraduate courses		
	PHYS 331	Physical optics
	PHYS 335	laser physics and its application
	PHYS103	general physics (1)
	PHYS 499	project research
	PHYS 325	Electronics
	PHYS 301	mathematical physics
	PHYS104	general physics (2)
	PHYS105	general physics for architecture
	PHYS111	general physics
	PHYS102	general physics
	PHYS145	general physics
Postgraduate courses		
	PHYS 535	atomic spectroscopy for master degree students
	PHYS 632	ultrafast Phenomena for PhD students
	PHYS 539	Laser Spectroscopy
	PHYS 600	supervision of an M.SC. thesis

ACTIVITES

1- List of Supervised Doctoral and Master Theses

Student name	***Duration***	***Title***	***Degree***
1- Marwa Ahmed Mohamed Ismail	2001-2004	Study of Laser Induced Breakdown Spectroscopy (LIBS) limit of detection of some common elements in two different metallic matrices	*M.Sc*
2- Asmaa Elhassan Ramadan Mohamed	2001-2004	Study the effect of static electric field on Laser induced plasma signal	*M.Sc*
3- Mohamed soliman Khater	2001-2006	Quantitative elemental analysis of agricultural drainage water using laser induced breakdown spectroscopy.	*PhD*
4- Abeer Asker	2001-2006	Qualitative and quantitative analysis of heavy elements contaminated sediments using LIBS	*M.Sc*
5- Sultan Fahead Alqahtani	2013-2015	Fabrication and study of structural and optical properties of cdte and cdse quantum dots	*M.Sc*
6- Mona Aweed Al-Motery	2013-2015	Laser induced Breakdown Spectroscopy of Selected Polymers	*M.Sc*

Professional Associations

- Senior member, Institute of Electrical and Electronics Engineering (IEEE), USA. ID#: 939832
- Senior member, The Optical Society of America (OSA), USA.# 92638495
- Member, The American Physical Society (APS), USA.# 61218544
- Member, Society of Photo-Optical Instrumentation Engineers SPIE

(Photonics Society) USA. # 3581083
- Member, European Society of Photobiology, Italy.
- Member, Saudi Physical Society, SPA, KSA.
- Member, The Egyptian Materials Research Society, Egypt.

2- **Peer-review activities**

1- Journal of Spectroscopy Letters.

2- Journal reviewer for journal of Sensor Letters (American Scientific Publishers).

3- Journal reviewer for the Journal of Physical Chemistry.

4- Science journal of environmental engineering research.

PUBLICATIONS

I - BOOKS:

1. **Walid Tawfik Mohamed** and Jungkwuen An, and Dong Eon Kim, 2012," Generation of Few Cycle Femtosecond Pulses via Supercontinuum in a Gas-Filled Hollow-Core Fiber" published as a chapter in book ""Optical Fibers/ Book 4 InTech , Croatia, **ISBN979-953-307-653-8.**

2. **Walid Tawfik Y. Mohamed** and Mahmoud Abdel-Aty (Editor), 2007, " Recent advances in laser induced breakdown spectroscopy as elemental analytical technique for environmental applications and space exploration" book titled " Aspects of Optical Sciences and Quantum Information", Research Signpost 37/661 (2), Fort P.O., Trivandrum-695 023, Kerala, India, **ISBN: 81-308-0147-7**.

II - PAPERS:

[1] **Tawfik, Walid** "Reaching white-light radiation source of ultrafast laser pulses with tunable peak power using nonlinear self-phase modulation in neon gas." Radiation Physics and Chemistry 125 (2016): 165-170.

[2] **Tawfik, Walid** "Precise measurement of ultrafast laser pulses using spectral phase interferometry for direct electric-field reconstruction." Journal of Nonlinear Optical Physics & Materials 24.04 (2015): 1550040.

[3] **Tawfik, Walid** "High-power table-top white-light few-cycle laser generator." Ukr. J. Phys. Opt 16.3 (2015): 111.

[4] **Tawfik, Walid** "A method for controlling the bandwidth of high-energy, few-optical-cycle laser pulses tunable from the visible to the near-infrared." Ukr. J. Phys. Opt 16.4 (2015): 147.

[5] **Walid Tawfik**, "Creation of Transform-Limited 120 GW Optical Pulses using Broadband Supercontinuum Generation in Optical Fiber", Journal of Optoelectronics and Advanced Materials 18.3-4 (2016): 201 – 206.

[6] **Walid Tawfik**, "Optimizing the optical throughput of a neon-filled hollow-core fiber for ultra-broadband sub-5 fs pulses", Journal of Optoelectronics and Advanced Materials 18.3-4 (2016): 213 – 219.

[7] **Walid Tawfik**, "Tuning the pulse duration of high intensity ultrafast laser pulses," Indian Journal of Natural Sciences 5, 30, (2015).

[8] W. A. Farooq , **Walid Tawfik**, Saad Bin Qasimc, A. S. Aldwayyana , M. Atif, "Application of Laser Induced Breakdown Spectroscopy in early detection of red palm weevil: (Rhynchophorus ferrugineus) infestation in date palm" Plasma Sci. Technol. 2015, 17 (8): 850-863.

[9] Arek Jarota, **Walid Tawfik**, Kobayashi Takayoshi "Investigation of the Ultrafast Dynamics of a Diarylethene -Based Photochromic Switch" submitted for publication.

[10] Walid Tawfik, W.A. Farooq, F.N. Al-Mutairi and Z.A. Alahmed "Monitoring of Inorganic Elements in Desert Soil Using Laser-induced Breakdown Spectroscopy" Lasers in Engineering (Old City Publishing); 2015, Vol. 32 Issue 1/2, p129-140.

[11] **Walid Tawfik**, Leda g. Bousiakou, Rabia Qindeel, W.A.Farooq, Norah H. Alonizan, Amal J. Fatani "Trace analysis of heavy metals in groundwater samples using laser induced breakdown spectroscopy (LIBS)" optoelectronics and adv. materials – R. comm. , 9, 1-2, (2015), 185 - 192.

[12] W. A. Farooq , **Walid Tawfik**, Saad Bin Qasimc, A. S. Aldwayyana , M. Atif, Kaleem Ahmad , M. S. AL-Salhi,"Qualitative analysis of dental nano-composite

restorative material using Laser Induced Breakdown Spectroscopy and EDS analysis", IEEE CONFERENCE PUBLICATIONS 12/**2014**; DOI: 10.1109/HONET.2014.7029391

[13] W A Farooq, M Atif, **W Tawfik**, M S Alsalhi1, Z A Alahmed, M Sarfraz, and J P Singh "Study of Bacterial Samples Using Laser Induced Breakdown Spectroscopy" Plasma Science and Technology, 16, 12, (2014).

[14] Kaleem Ahmad, **Walid Tawfik**, Wazirzada A. Farooq and Jagdish P. Singh "Analysis of alumina-based titanium carbide composites by laser-induced breakdown spectroscopy" Appl. Phys. A, 116,2, (2014) 1-8.

[15] **Walid Tawfik** and Sausan Sawaf " Approaching the ppb detection limits for copper in water using laser induced breakdown spectroscopy ", Proc. SPIE 9101, Next-Generation Spectroscopic Technologies VII, 91010L (May 21, 2014); doi:10.1117/12.2053957

[16] W. A. Farooq, Amanullah Fatehmulla, F. Yakuphanoglu, I. S. Yahia, Syed Mansoor Ali, M. Atif, M. Aslam, and **Walid Tawfik** ," Photovoltaic Characteristics of Solar Cells Based on Nanostructured Titanium Dioxide Sensitized with Fluorescein Sodium Salt" Theoretical and Experimental Chemistry, 50, 2, (2014) 121-126.

[17] W. A. Farooq,**W. Tawfik**, Z. A. Alahmed, K. Ahmad, and J. P. Singh "Role of purging gases in the analysis of polycarbonate with laser-induced breakdown spectroscopy", Journal of Russian Laser Research, 35, 3, (2014) 252-262.

[18] Rabia Qindeel, **WALID TAWFIK**, "Measurement of plasma characteristics of the optically generated copper plasma by laser spectroscopy technique", optoelectronics and adv. materials – R. comm. , 8, 7, (2014), 741-746.

[19] S. SAWAF, **WALID TAWFIK**, "Analysis of heavy elements in water with high sensitivity using laser induced breakdown spectroscopy", optoelectronics and adv. materials – R. comm. , 8, 5-6, (2014), 414 – 417.

[20] **Walid Tawfik**, W Aslam Farooq, and Z. A. Alahmed, "Damage Profile of HDPE Polymer using Laser-Induced Plasma", J. Opt. Soc. Korea 18, 50-54 (2014).

[21] W. A. Farooq, S. M. Ali1, Walid Tawfik, Amanullah Fatehmullaa, M. Aslama, A. S. Al Dwayyan, and M. S. AlSalhi" Influence of Laser Irradiation

on the Optical Properties of Nanosized Powder of Metal Oxide" Russian Journal of Physical Chemistry A, 88, 13, 2446–2450 (2014).

[22] W. A. Farooqa, K. G. Rasool, Walid Tawfik and A. S. Aldawood, A S Aldwayyan "Application of Laser Induced Breakdown Spectroscopy in early detection of red palm weevil: (Rhynchophorus ferrugineus) infestation in date palm" 8th International Conference on Laser Induced Breakdown Spectroscopy" proceeding of 8th International Conf. on LIBS, Beijing, China, from the Sept. 8th to 12th, (2014).

[23] Wazirzada Aslam Farooqa , Walid Tawfik Mohamed, Saad Bin Qasim, and M. Atif, Kaleem Imam and Aldwayyan, A.S. "Qualitative analysis of Dental Nanocomposite Restorative material using Laser Induced breakdown Spectroscopy and SEM EDS analysis.", IEEExploer, High Capacity Optical Networks and Enabling Technologies (HONET-ICT), 2014, 15-17 Dec. Charlotte, North Carolina, USA.

[24] Al-Inad, T.M. , **Tawfik, Walid** , Farooq, W.A. and Aldwayyan, A.S. "LIP characteristics of nanostructured ZnO thin films", IEEExploer, High Capacity Optical Networks and Enabling Technologies (HONET-CNS), 2013, 11-13 Dec. 2013, Magosa, Cyprus.

[25] W Aslam Farooq, **Walid Tawfik**, Fahad N. AL-Mutairi, and Zeyad A. Alahmed "Qualitative Analysis and Plasma Characteristics of Soil from a Desert Area using LIBS Technique" J. Opt. Soc. Korea 17, 548-558 (2013).

[26] W.A. Farooq,Walid Tawfik , A. Fatehmulla , S. M. Ali , M. Aslam "Laser irradiation effect on ZnO nanoparticles" IEEExplore, CAOL*2013 International Conference on Advanced Optoelectronics & Lasers, 09-13 September, (2013), Sudak, Ukraine.

[27] **Walid Tawfik**, W Aslam Farooq, Zeyad A. Alahmed, M Sarfraz and Fahrettin Yakuphanoglu "Characterization and Analysis of Nanostructured CdO Thin Film using LIBS Technique" IEEExplore, Electronics, Communications and Photonics Conference (SIECPC), 2013 Saudi International.

[28]Guanglong Chen , Xiaotao Geng , **Tawfik Walid Mohamed** , Hongxia Xu , Yiming Mi,Jaehoon Kim , Dong Eon Kim," Ar plasma waveguide produced by

a low-intensity femtosecond laser" Optics Communications 285 (2012) 2627–2631.

[29] **Walid Tawfik Mohamed**, Guanglong Chen, Jaehoon Kim, Geng Xiao Tao1, Jungkwen Ahn and Dong Eon Kim "Controlling the length of plasma waveguide up to 5 mm, produced by femtosecond laser pulses in atomic clustered gas" , Optics Express **2011**, 19(17)15919-15928.

[30] **Walid Tawfik Y. Mohamed**, **2008**, " Improved LIBS limit of detection of Be, Mg, Si, Mn, Fe and Cu in aluminum alloy samples using a portable Echelle spectrometer with ICCD camera", Journal of Optics & Laser Technology, Vol. 40, pp.30-38. **(one of the best hot 25 papers ranked by science direct)**

[31] **Walid Tawfik Younes Mohamed**, **2007**, "Calibration Free LIBS Identification Of seawater Salinity", Optica Applicata Vol. 37, No. 1, 5-19.

[32] **Walid Tawfik Y. Mohamed**, **2007**, "Fast LIBS Identification of Aluminum Alloys", Progress in Physics, Vol. 2, pp. 87-92.

[33] **Walid Tawfik Y. Mohamed** and Abeer Askar, **2007**, "study of the matrix effect on the plasma characterization of heavy elements in soil sediments using LIBS with a portable Echelle spectrometer", Progress in Physics, Vol. 1, pp. 47-53.

[34] **Walid Tawfik Y. Mohamed**, **2007**, " Study of the Matrix Effect on the Plasma Characterization of Six Elements in Aluminum Alloys using LIBS with a Portable Echelle Spectrometer", Progress in Physics, Vol. 2, pp. 42-49.

[35] **Walid Tawfik Younes Mohamed** and Ali Saafan, **2006**,"Quantitative analysis of mercury in silver dental amalgam alloy using laser induced breakdown spectroscopy with a portable Echelle spectrometer", International Journal of Pure and Applied Physics, Vol.2, No.3, pp. 195-203.

[36] **Walid Tawfik Y. Mohamed**, **2006**," Quantitative elemental analysis of seawater by laser induced breakdown spectroscopy", International Journal of Pure and Applied Physics, vol. 2, No.1, pp. 11-21.

[37] **Walid Tawfik**, Taher Salah, Mahmoud H. Abdelkader, S.A.Hassan and Mohamed A. Harith**, 2006,"**Fast analysis of animal feeds using Laser-induced breakdown spectroscopy", Science Echoes, vol. 6, pp. 19-31

[38] **Walid Tawfik**, Mohamed A. Harith, Mohamed Elbatanony and Said El-Tayeb,

2006, "Human enamel in ancient (3400-1085 BC) and recent Egypt, Science Echoes, vol.7, pp. 28-38.

[39] **Walid Tawfik**, Magdy M. Omar, Yoser E. Gamal and Lotfia El Nadi , **2005**, " Ultrafast moving bubbles of focused laser pulsed in water", American Institute of Physics AIP conference proceedings, vol. 748, pp. 280-288.

[40] Marwa A. Ismail, Hisham Imam, Asmaa Elhassan, **Walid T. Youniss** and MohamedA. Harith, **2004**, "LIBS limit of detection and plasma parameters of some elements in twodifferent metallic matrices" J. Anal. At. Spectrom. , vol. 19, pp. 1–7.

[41] M. Sabsabi, V. Detalle, M. Harith, **W. Tawfik** and H. Imam, **2003**, "Comparative study of two new commercial echelle spectrometers equipped with intensified CCD for analysis of laser-induced breakdown spectroscopy" Applied Optics, Vol. 42, No. 30, pp.6094-6098.

[42] M. soliman, **W. Tawfik** and M. A. Harith, **2003**, "quantitative elemental analysis of agricultural drainage water using laser induced breakdown spectroscopy, First Cairo conference on plasma physics & applications," Cairo, Egypt, Forschungszentrum Juelich GmbH, Bilateral Seminars of the International Bureau, Vol. 34, pp. 240-243.

[43] **Walid T. Mohamed**, Mahmoud H.A. Elkader, Yosr E.E. Gamal and E.W. Schlag " Long lived High Rydberg States of Benzene as an air pollutant " in proceeding of the 4th Euro-Mediterranean Conference on Laser & photobiology applications in Medicine and Environment 13-16 Feb. 2001 hold at NILES, Cairo University, Egypt.

[44] **Walid Tawfik**, M.M.Omer, Yosr E.E-D Gamal and EL-Nadi (1997)," Photo dissociation of H2O molecule in intense Laser field " Proceeding of solar energy storage conference " Solar 97Cairo,Egypt , **6th Jan. 1997**

[45] **Walid Tawfik**, M.A. Abdelnaser, Yosr E. Gamal, and Lotfia Einadi **(1997):** "self-focusing of Nd:YAG laser beam in water" international center for theoretical physics, Internal Report, MIRAMARE TRIEST, Italy.

[46] **WALIED TAWFIK**, MAGDY M. OMARA, YOSR E. GAMAL and L. EL

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NADI **, (1995)** ," Bulk and surface effects in liquids due to interaction of high power

pulsed laser beams ", Proceeding of Femtochemistry: The Lausanna Conference Sept. 4 –8 Lausanne Switzerland, page 483-490. World scientific.

Participation in Scientific Meetings and Conferences

1. Awatif Althubyani, W. A. Farooq, Walid Tawfik, Rabia Qindeel "Identification of hazardous elements in the polymeric materials used as containers for water and food using laser induced breakdown spectroscopy" 2nd AMOP annual meeting conference March 31- April 1, 2015, Aljouf university, Saudi Arabia.
2. Mona Moteiry, Walid Tawfik , Rabia Qindeel, W. A. Farooq "Spectral analysis and plasma characteristics of commercial polymers using laser induced plasma" 2nd AMOP annual meeting conference March 31- April 1, 2015, Aljouf university, Saudi Arabia.
3. Sultan F. Alqhtani, W. A. Farooq, Walid Tawfik "Qualitative analysis of impurities in sensitized cadmium selenide quantum dots using laser induced breakdown spectroscopy" 2nd AMOP annual meeting conference March 31- April 1, 2015, Aljouf university, Saudi Arabia.
4. Walid Tawfik, W Aslam Farooq , Fahad Naif AL-Mutairi and Zeyad A. Alahmed "Monitoring of inorganic elements in desert soil remotely using laser induced breakdown spectroscopy" Invited speaker, The International Middle East Plasma Science (IMEPS) conference held in Antalya, Turkey April 23 – 25 (2014).
5. Walid Tawfik, "Toward Generation Of High Power Ultrafast White Light Laser Using Femtosecond Terawatt Laser In A Gas-Filled Hollow-Core Fiber", International Symposium on Molecular Spectroscopy, June 22-26 2015, Urbana-Champaign Chicago , USA.
6. ISMS (International Symposium on Molecular Spectroscopy) 70th meeting - June 22-26, 2015 – USA, Champaign-Urbana, Illinois.
7. SPIE conf. USA, , Baltimore Convention Center Baltimore, Maryland, United States 5-9 May 2014.
8. Invited speaker, The International Middle East Plasma Science (IMEPS) conference will be held in Antalya, Turkey April 23 – 25 (2014).
9. The Honet'13 High Capacity Optical Networks and Enabling Technologies, Magosa, Cyprus, December 11-13, 2013.
10. Electronics, communications and photonics conference. saudi international. 2013. (siecpc 2013), 27-30 april 2013, Riyadh, Saudi Arabia.
11. KAUST-UCSB-NSF Workshop on Solid-State Lighting, 2012, King Abdullah University of Science & Technology (KAUST), Thuwal, Saudi

Arabia, Hall 1 and 2, Museum and Conference Center 13-14, February 2012.

12. The Honet'11 High Capacity Optical Networks and Enabling Technologies, Riyadh, Kingdom of Saudi Arabia, December 19-21, 2011.
13. The Atto3 conference Sapporo, Hokaido university, Japan 6-9 July 2011. Two posters "Toward high-order harmonic generation from ions by a femtosecond terawatt laser in plasma waveguide produced by clustered gas jet" and " Attosecond light facility constructed in CASTECH"
14. The 4th Asian Workshop on Generation and Applications of Coherent XUV and X-ray Radiation will be held on Jan. 20-21, 2011 at POSTECH, Pohang, Korea.
15. The GRDC Symposium 2010 "Green Science and Engineering for Health and Environment" Maria Hall at the Catholic University of Korea in Seoul, Korea 15-16 Nov. 2010.
16. First international Conference on Modern Trends in Physics Research MTPR-04, Cairo, Egypt 4-9 April 2004.
17. Second Euro-Mediterranean Symposium on Laser Induced Breakdown Spectroscopy, Hersonissos, Crete, Greece, September 30th – October 3rd, 2003.
18. The 4th Euro-Mediterranean Conference on Laser & photobiology applications in Medicine and Environment 13-16 Feb. 2001 hold at NILES, Cairo University, Egypt.
19. Training course on laser diagnostics of combustion processes organized by NILES, Cairo University in cooperation with ICS- UNIDO, Trieste , Italy, Cairo, Egypt, 18Nov.- 22 Nov. 2000.
20. Training course on industrial laser application organized by NILES, Cairo university in cooperation with ICS- UNIDO, Trieste, Italy, Cairo, Egypt, 27 May- 8 June 2000.
21. Workshop on laser applications organized by NILES, Cairo University, Egypt, 4-8 Feb.2000.
22. Training Course on Laser Science and its applied Technologies organized by NILES Cairo University in cooperation with ICS-UNIDO, Trieste -Italy, Cairo 9-21 November 1998.
23. Winter college on Quantum optics: novel Radiation Sources - Trieste -Italy - 3-21 march 1997.
24. 4th workshop on Plasma and Laser Physics, Sonesta Hotel, Naser City, Cairo Egypt.26-29 Feb. 1997," Self Focusing and associated Phenomenon induced by high intensity Q-Switched Nd: YAG Laser Beam in Water",W. Tawfik, A. Abd El-Fattah, Yosr E.E. Gamal and L. El-Nadi.

Referees & references;

1-Prof. Lotfia El-Nadi
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Field of research
Vice Director of of the International Center of Scientific and Applied Studies of High Density Short Pulse Lasers (IC-SAS) HDSP Lasers , Laser spectroscopy, Laser medical applications, Laser plasma physics.

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2 - Prof. Dr. Y. E. E. Gamal
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Field of research
Theoretical modeling and simulation of Laser-Induced Breakdown Spectroscopy and its application , especially in gases using shot laser pulses.

3- Prof. Aslam Farooq Wazirzada

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Field of research
Optical properties of semiconductors, Organic-inorganic photosensor , applications of Laser-Induced Breakdown Spectroscopy technique.

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5- Prof. Dr. Rick Trebino

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Field of research

Ultrafast lasers and characterization of ultrafast pulses and nonlinear phenomenon.

6- Prof. Dr. Mostafa A. El-Sayed

Julius Brown Chair and Regents' Professor
Director, Laser Dynamics Laboratory
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Field of research

Ultrafast spectroscopy, photo- chemistry, femtosecond laser photo- dynamics and nanoparticles generation and characterization using ultrafast lasers.

7- Prof. Dr. Mohamad Sabsabi

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Field of research

Material analysis using Laser-Induced Breakdown Spectroscopy. Application of

the LIBS technique to the metals, mining, pharmaceutical and environmental sectors.

8- Prof. Jagdish P Singh

Institute for Clean Energy Technology
(Formerly: Diagnostic Instrumentation and Analysis Laboratory)
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Field of research

Optical Fiber Sensors, Lasers, Electronics, Laser Spectroscopy (LIBS), Molecular Dynamics, Laser Diagnostics for Combustion, Laser Ultrasonic and Hazardous Waste Management.

9- Prof. Dr. Eon Dong Kim
Professor, Physics Department
Director, Center for Attosecond Science and Technology(CASTECH)
Asian Director, Max Planck Center for Attosecond Science (MPC-AS) POSTECH
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Field of research

Ultrafast laser spectroscopy, HHG for Attosecond pulse generation, Nanoscience in Fabrication of Silicon nanowires, Attosecond spectroscopy and Few cycles generation and stabilization.

10- Asst. Prof. Ashraf M. Eldakrory

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Reference Relationship: scientific collaboration in femtosecond laser spectroscopy

Field of research

Femtosecond laser spectroscopy, Laser tissue interaction and laser plasma deposition of thin films on nylon-6 .

11- Associate Prof. Khaled Elsayed
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Field of research

Laser Spectroscopy and its applications, Laser interaction with nanoparticles

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12- Associate Prof. Ibrahim Yahia
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Reference Relationship: scientific collaboration in laser enhance sensitization of nanostructured solar cells.

Field of research

Nano-Science and Semiconductor Labs.

13- Asst. Prof. Mahmoud Abdel-Fattah
National institute of laser enhanced sciences,
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Field of research

High power lasers and its industrial applications.

14- Dr. Muhammad Elbandrawy
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Field of research

High power lasers and its industrial applications.

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15 - Prof. Dr. Dr. Tharwat El-sherbini

Professor of Laser Physics
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Field of research

Theoretical modeling and experimental of laser spectroscopy and laser plasma deposition thin films.

16- Prof. Dr. E. W. Schlag

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Fax:+49 89 289 13389
E-mail: schlag@ch.tum.de Or : schlag@mytum.de
Web: http://www.phys.chemie.tu-muenchen.de/staff/schlag/

Field of research

Multiphoton ionization mass spectrometry**,** High resolution sub-Doppler molecular spectroscopy and dynamics, ZEKE spectroscopy which include spectroscopy and kinetics of molecular ions and dynamics of photoexcited states and van der Waal's molecules**.**

17- Prof. Mahmoud Abdel-Aty

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Bahrain university, Bahrain
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E-mail: abdelatyquantum@gmail.com
Web: http://www.abdelaty.tk

Field of research

Quantum optics and quantum information, including theoretical modeling of ultra-cold atoms (Mazer), quantum new states, semiclassical laser theory, quantum entanglement, and Trapped ions interacting with a laser field.

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18 - Prof. Dr. Lotfia El-Nadi

Professor of laser Physics
Faculty of Science, Physics Department, Laser
Physics Lab. Cairo University, Cairo, Egypt.

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Field of research

Lasers, Laser spectroscopy, Laser medical applications, Laser plasma physics, Laser Filamentation effect.

19- Associated Professor Dr. Abdel-Aleam H Mohamed
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Field of research

Plasma spectroscopy, cold plasma generation, Laser spectroscopy, plasma jet medical applications.

20- Assistant **Professor Muhammad Atif**
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