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PERSONAL DETAILS

Date of Birth	23 September 1967
Nationality	Syrian
Occupation	Lecturer in Physics
Mailing Address	Department of Physics Faculty of Sciences University of Damascus Damascus, Baramkeh Syria.

EDUCATION

2004	PhD in Laser-Plasma Physics, University of York, UK.
2000	Msc by research in Laser-Plasma Physics, University of York, UK.
1992	Diploma of High Studies in Electronics of Solid State, Aleppo University, Syria.
1991	Bsc in Physical Sciences (Nuclear), Aleppo University, Syria.

CAREER HISTORY

2004 – present University of Damascus Faculty of Sciences Department of Physics Syria.	Lecturer in Physics, teaching courses of: Plasma Physics course, Mechanics II, Laser Applications, Laser Material Interaction. Coordinate of Laser and Optics laboratory (Lab 6) and Lab 1 for undergraduate students.
2005 – present **IUST, Syria**	Teaching courses of: General Physics for Medical Sciences, General Physics for Engineering I and II.
2016 – present Distinction and Creativity Commission Academic Programs (Applied Physics, Laser) , In corporation with Damascus University Syria.	Teaching courses of: Electrodynamics I & II.

2016 – present Syrian Organisation for Persons with Disabilities In corporation with Damascus University Syria.	Teaching Course of: Sound Physics for Msc in Treatment of Speech and Language.
2108 – present University of Damascus Faculty of Health Science Department of Treatment of Speech and Language Syria	Teaching Course of General Physics.

PUBLICATIONS

1. **Y. Abou-Ali,** "*Pumping laser energy absorption in X-ray laser experiments*". Accepted to publish in Damascus University Journal For Basic Sciences. ISSN 1726-5487 (2019).

2. **Y. Abou-Ali**, "*A computational investigation of nickel - like dysprosium collisionally pumped laser*". Accepted to publish in Damascus University Journal For Basic Sciences. ISSN 1726-5487**(**2018).

3. **Y. Abou-Ali**, Q. L. Dong, A. Demir, R. E. King, G. J. Pert and G. J. Tallents, "*Quantitative simulations of short pulse x-ray laser experiments*". J. Phys. B: At. Mol. Opt. Phys. **37** 2855 – 2868 (2004).

4. **Y. Abou-Ali**, A. Demir, G. J. Tallents, M. Edwards, R. E. King and G. J. Pert, "*Comparison of simulated and experimental time resolved emission for a Ne-like nickel x-ray laser*". J. Phys. B: At. Mol. Opt. Phys. **36** 4097 – 4106 (2003).

5. **Y. Abou-Ali**, G. J. Tallents, M. Edwards, R. E. King, G. J. Pert, S. J. Pestehe, F. Strati, R. Keenan, C. L. S. Lewis, S. Topping, O. Guilbaud, A. Klisnick, D. Ros, R. Clarke, D. Neely, M. Notley and A. Demir, "*Measurement of the duration of X-ray lasing pumped by an optical laser pulse of picosecond duration*". Optics Communications. **215** 397 – 406 (2003).

6. **Y. Abou-Ali**, Q. L. Dong, A. Demir, G. J. Pert and G. J. Tallents, "*Pumping laser energy absorption in X-ray laser experiments*". 9th International Conference on X-ray Lasers Proceedings. In press (2004).

7. **Y. Abou-Ali**, G. J. Tallents, M. H. Edwards, R. Keenan, S. J. Topping, C. L. S. Lewis, O. Guilbaud, A. Klisnick and D. Ros, "*Measurement of Gain Duration for Ne-like Ni and Ni-like Ag*". AIP Conference Proceedings, November 18, Volume **641**, Issue 1, pp. 3 - 8 (2002).

8. **Y. Abou-Ali**, Q. L. Dong, G. J. Tallents, G. J. Pert and A. Demir, "*Energy absorption in x-ray laser experiments".* Central Laser Facility Ann. Rep. [ISBN 0902376314], p 39 (2004).

9. **Y Abou-Ali**, G J Tallents, M Edwards, R E King, G J Pert and A Demir, "*Time resolved emission for a Ne-like nickel X-ray laser*". Central Laser Facility Ann. Rep. [ISBN 0902376268], p 49 (2003).

10. **Y. Abou-Ali**, M. Edwards, G. J. Tallents, R. Keenan, C. L. S. Lewis, S. Topping, O. Guilbaud, A. Klisnick, D. Ros, R. Clarke, D. Neely and M Notley, "*Measurement of the duration of X-ray lasing pumped by Vulcan CPA*". Central Laser Facility Ann. Rep [ISBN 0902376217], p 47 (2002).

11. G. J. Tallents, **Y. Abou-Ali**, A. Demir, Q. Dong, M. H. Edwards, P. Mistry and G. J. Pert, "*Experiments and simulations of short-pulse laser pumped extreme ultra-violet lasers*". IEEE Journal of Selected Topics in Quantum Electronics, **10**, Issue: 6, 1373 – 1381 (2004).

12. G. Tallents, J. Pestehe, E. Turcu, **Y. Abou-Ali**, G. Hirst, M. Powers, W. Shaikh, "*Efficiency of 1.5- to 4.5-keV x-ray production from laser plasmas*". Proc. SPIC Vol. **5196,** p. 185 – 193 (2004), Laser-Generated and Other Laboratory X-Ray and EUV Sources, Optics, and Applications; George A. Kyrala, Jean-Claude J. Gauthier, Carolyn A. MacDonald, Ali M. Khounsary; Eds.

13. G. Tallents, **Y. Abou-Ali**, M. Edwards, Q. Dong, P. Mistry, G. Pert, C. Lewis, A. Klisnick and P. Zeitoun, "*Approaching the transform limit for X-ray laser pulses"*. Proc. SPIC Vol. **5197**, p. 9 –16 (2003), Soft X-Ray Lasers and Applications V; Ernst E. Fill, Szymon Suckewer; Eds.

14. M. Edwards, **Y. Abou-Ali**, J. Pestehe, F. Strati, G. J. Tallents, S. Hubert, R. Keenan, S. Topping, C. L. S. Lewis, O. Guilbaud, A. Klisnick, D. Ros, R. Clarke, D. Neely and M. Notley, "*Time-resolved measurements of the transient X-ray laser emission***".** AIP Conference Proceedings, November 18, Volume **641**, Issue 1, pp. 15 - 20 (2002).

15. G. J. Tallents, **Y. Abou-Ali**, M. Edwards, R. E. King, G. J. Pert, J. Pestehe, F. Strati, R. Keenan, C. L. S. Lewis, S. Topping, O. Guilbaud, A. Klisnick, D. Ros, R. Clarke, D. Neely and M. Notley, *"Saturated and Short Pulse Duration X-Ray Lasers"*. AIP Conference Proceedings, November 18, Volume **641**, Issue 1, pp. 291 – 297 (2002).

16. G. J. Tallents, **Y. Abou-Ali**, M. Edwards, R. King, G. J. Pert, S. J. Pestehe, F. Strati, C. L. S. Lewis, R. Keenan, S. Topping, A. Klisnick, O. Guilbaud, D. Ros, R. Clarke, M. Notley and D. Neely, *"A review of X-ray laser development at Rutherford Appleton Laboratory"*. Laser and Particle Beams, Volume **20**, Issue 02. pp 201 - 209 (2002).

17. S. J. Pestehe, G. J. Tallents, I. C. E. Turcu, **Y. Abou-Ali**, G. Hirst, M. Powers and W. Shaikh, "*Efficiency of 1.5 – 4.5 keV X-ray production from 2 ps duration KrF laser pulses incident onto solid targets"*. J. Phys. D: Appl. Phys. **35**, 1117 – 1122 (2002).

18. N. C. Woolsey, **Y. Abou-Ali**, R. G. Evans, R. A. D. Grundy, S. J. Pestehe P. G. Carolan, N. J. Conway, R. O. Dendy, P. Helander, K. G. McClements J. G. Kirk P. A. Norreys, M. M. Notley and S. J. Rose, *"Collisionless shock and supernova remnant simulations on VULCAN"*. Phys. Plasmas, Vol. **8**, No. 5, 2439 - 2445 May (2001).

19. N. C. Woolsey, **Y. Abou-Ali**, R. G. Evans, R. A. D. Grundy, S. J. Pestehe P. G. Carolan, N. J. Conway, R. O. Dendy, P. Helander, K. G. McClements J. G. Kirk P. A. Norreys, M. M. Notley and S. J. Rose, "*Response to 'Comment on 'Collisionless shock and supernova remnant simulations on VULCAN'" [Phys. Plasmas **9**, 727 (2002)]*. Phys. Plasmas, Vol. **9**, No. 2, 729 – 730 February (2002).

20. N. C. Woolsey, **Y. Abou-Ali**, R. G. Evans, R. A. D. Grundy, S. J. Pestehe P. G. Carolan, N. J. Conway, R. O. Dendy, P. Helander, K. G. McClements J. G. Kirk P. A. Norreys, M. M. Notley and S. J. Rose, *"Supernova remnant simulation experiments on VULCAN"*. Proceedings of SPIE, Volume **4424**, ECLIM 2000: 26th European Conference on Laser Interaction with Matter, Milan Kalal, Karel Rohlena, Milan Sinor, Editors, pp. 484 - 491 April (2001).

21. S. J. Topping, R Keenan, C L S Lewis, **Y. Abou-Ali**, G. J. Tallents, M. Notley and D. Neely, *"Saturated x-ray lasers at 196Å and 231Å and imaging of the Ne-like Ni XRL"*. Central Laser Facility Ann. Rep [ISBN 0902376160], p 45 (2001).

22. N. C. Woolsey, R. A. D. Grundy, **Y. Abou-Ali**, S. J. Pestehe, P. A. Norreys, M. M. Notley, R. Steele, S. J. Rose, P. Carolan and N. Conway, R. O. Dendy, *"Preliminary studies of collisionless shocks in the laboratory"*. Central Laser Facility Ann. Rep [ISBN 0902376012], p 42 (2000).

23. S. J. Pestehe, G. J. Tallents, **Y. Abou-Ali**, E. Turcu, M. Powers and W. Shaikh, *"Calibration of a charge coupled device (CCD) using single photon counting"*. Central Laser Facility Ann. Rep [ISBN 0902376012], p 217 (2000).

OTHER QUALIFICATIONS

1999 The Cosener's House, Abingdon, UK.	(December 18 – 20) attended Annual Meeting of the UK High Power Laser Science Community.
2000 Central Laser Facility (CLF), Rutherford Appleton Laboratory (RAL), Chilton, Didcot, Oxfordshire, UK.	(January 31 to February 11) attended a two-week residential course on laboratory techniques used in laser-plasma experiment at the Central Laser Facility, Rutherford Appleton Laboratory. Lectures on various aspects of the theory and diagnosis of laser-plasma were given as well as hands-on practise in target alignment and other optical procedures.
2000 Central Laser Facility (CLF), Rutherford Appleton Laboratory (RAL), Chilton, Didcot, Oxfordshire, UK.	(October 30 to November 10) attended a two-week residential course on laboratory techniques used in laser-plasma experiment at the Central Laser Facility, Rutherford Appleton Laboratory. Lectures on various aspects of the theory and diagnosis of laser-plasma were given as well as hands-on practise in target alignment and other optical procedures.
2000 The Cosener's House, Abingdon, UK.	(December 18 – 20) attended Annual Meeting of the UK High Power Laser Science Community, and presented a poster.
2001 CLF, RAL, Chilton, Didcot, Oxfordshire, UK.	(January 10) attended a UK X-Ray Lasers Forum.

2001 ST Catherine's College, Oxford, UK.	(December 17 – 19) attended Annual Meeting of the UK High Power Laser Science Community, and presented a poster.
2002 CLF, RAL, Chilton, Didcot, Oxfordshire, UK.	(March 19) attended a UK X-Ray Lasers Forum and presented a presentation.
2002 CLF, RAL, Chilton, Didcot, Oxfordshire, UK.	(April 10 - 12) attended 25th Anniversary of the CLF & Vulcan Petawatt Inauguration with Workshop on Ultra-High Field Laser.
2002 Aspen, Colorado, USA.	(May 27 – 31) attended 8th International Conference on X-Ray Lasers, and presented a paper.
2002 ST Catherine's College, Oxford, UK.	(December 18 – 20) attended Annual Meeting of the UK High Power Laser Science Community, and presented a presentation.
2003 The Cosener's House, Abingdon, UK.	(December 15 – 17) attended Annual Meeting of the UK High Power Laser Science Community, and presented a presentation.
2004 York, UK.	(April 5 – 8) attended IOP Plasma Conference, and presented a paper.
2004 Beijing, China.	(May 24 – 28) attended 9th International Conference on X-Ray Lasers, and presented a paper.
2004 – present London, UK.	(June 10) Chosen to be a Referee of Institute of Physics Journals (IOP).
2005 Damascus University, Syria.	(January 2 – 30 February) Prepared a new Laser Lab for undergraduate (year four), 8 different experiments have been set-up.
2005 Trieste, Italy.	(September 5 - 30) attended "Autumn College on Plasma Physics", different lectures on different kind of plasma have been given. I have presented one-hour seminar on X-ray Laser from Laser- Produced- Plasma (my PhD work).
2005 – present	Member of Syrian Association for Fundamental and Natural Sciences (SAFNS).
2007 – 2015 IUST, Syria.	Head of Basic Sciences and University Requirements Department.

SKILLS

- Highly expert in Optics and Laser-Plasma Diagnostics.
- Good knowledge of Windows XP/ 08, MS Office 2010, Unix.
- Competent programmer: C^{++} and Fortran 77 & 90.
- Fluent use of Arabic and English languages.

REFERENCES

- ✓ Professor Greg Tallents, Department of Physics, The University of York, Heslington, York, YO10 5DD, UK.
- ✓ Professor Geoff Pert, Department of Physics, The University of York, Heslington, York, YO10 5DD, UK.