europass Curriculum Vitae

PERSONAL INFORMATION Miles Turner

EDUCATION AND TRAINING

1986 – 1990	**Ph. D.** University of St Andrews, Scotland
1983 - 1986	**B. Sc.** Imperial College, London, United Kingdom

ADDITIONAL INFORMATION

Professional Interests	Member of EURATOM Programme Committee, EUROfusion General Assembly, Chair of COST Action MP1101
Projects	EURATOM FP7 Programme, EUROfusion H2020 Programme, Projects funded by national agencies, e.g. Science Foundation Ireland
Memberships	Fellow, Institute of Physics

Publications and Patents

1. Attenuation of wall disturbances in an electron cyclotron resonance oxygen-argon plasma using real time control. Keville, Bernard; Gaman, Cezar; Zhang, Yang; et al.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A 32 4 041301 JUL 2014
2. Leap frog integrator modifications in highly collisional particle-in-cell codes. Hanzlikova, N.; Turner, M. M.
JOURNAL OF COMPUTATIONAL PHYSICS 268 355-362 JUL 1 2014
3. A radio-frequency sheath model for complex waveforms. Turner, M. M.; Chabert, P.
APPLIED PHYSICS LETTERS 104 16 164102 APR 21 2014
4. Equivalence of the hard-wall and kinetic-fluid models of collisionless electron heating in capacitively coupled discharges. Lafleur, T.; Chabert, P.; Turner, M. M.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY 23 1 015016 FEB 2014
5. "Anomalous" collisionality in low-pressure plasmas. Lafleur, T.; Chabert, P.; Turner, M. M.; et al.
PHYSICS OF PLASMAS 20 12 124503 DEC 2013
6. Theory for the self-bias formation in capacitively coupled plasmas excited by arbitrary waveforms. Lafleur, T.; Chabert, P.; Turner, M. M.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY 22 6 065013 DEC 2013
7. Overview of the JET results with the ITER-like wall. Romanelli, F.; Abel, I.; Afanesyev, V.; et al.
NUCLEAR FUSION 53 10 104002 OCT 2013
8. Numerical effects on energy distribution functions in particle-in-cell simulations with Monte Carlo collisions: choosing numerical parameters. Turner, M. M.
PLASMA SOURCES SCIENCE & TECHNOLOGY 22 5 055001 OCT 2013
9. Use of particle-in-cell simulations to improve the actinometry technique for determination of absolute atomic oxygen density. Conway, J.; Kechkar, S.; Connor, N. O'; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY 22 4 045004 AUG 2013
10. Investigation of atomic oxygen density in a capacitively coupled O-2/SF6 discharge using two-photon absorption laser-induced fluorescence spectroscopy and a Langmuir probe. Kechkar, S.; Swift, P.; Conway, J.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY 22 4 045013 AUG 2013
11. Critical evaluation of analytical models for stochastic heating in dual-frequency capacitive discharges. Sharma, S.; Turner, M. M. JOURNAL OF PHYSICS D-APPLIED PHYSICS 46 28 285203 JUL 17 2013
12. Simulation study of wave phenomena from the sheath region in single frequency capacitively coupled plasma discharges; field reversals and ion reflection. Sharma, S.; Turner, M. M.
PHYSICS OF PLASMAS 20 7 073507 JUL 2013
13. Simulation study of stochastic heating in single-frequency capacitively coupled discharges with critical evaluation of analytical models. Sharma, S.; Turner, M. M.
PLASMA SOURCES SCIENCE & TECHNOLOGY 22 3 035014 JUN 2013
14. Real-time control of electron density in a capacitively coupled plasma. Keville, Bernard; Zhang, Yang; Gaman, Cezar; et al.
JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A 31 3 031302 MAY 2013
15. Phase-resolved optical emission spectroscopy for an electron cyclotron resonance etcher. Milosavljevic, Vladimir; MacGearailt, Niall; Cullen, P. J.; et al.
JOURNAL OF APPLIED PHYSICS 113 16 163302 APR 28 2013
16. Simulation benchmarks for low-pressure plasmas: Capacitive discharges. Turner, M. M.; Derzsi, A.; Donko, Z.; et al.
PHYSICS OF PLASMAS 20 1 013507 JAN 2013
17. Dielectric covered hairpin probe for its application in reactive plasmas. Gogna, G. S.; Gaman, C.; Karkari, S. K.; et al.
APPLIED PHYSICS LETTERS 101 4 042105 JUL 23 2012
18. The temporal evolution in plasma potential during laser photo-detachment used to diagnose electronegative plasma. Sirse, N.; Karkari, S. K.; Mujawar, M. A.; et al.
PLASMA SOURCES SCIENCE & TECHNOLOGY 20 5 055003 OCT 2011
19. Properties of a differentially pumped constricted hollow anode plasma source. Mujawar, M. A.; Karkari, S. K.; Turner, M. M.
PLASMA SOURCES SCIENCE & TECHNOLOGY 20 1 015024 FEB 2011