Europhysics Sectional Conference on the Atomic and Molecular Physics of Ionized Gases

ESCAMPIG XXIV

Glasgow July 17-21

Conference Guide



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Committees International Scientific Committee

Carlos D. Pintassilgo (Chair), Portugal Ronny Brandenburg, Germany Nikolay Dyatko, Russia Richard Engeln, Nertherlands František Krčma, Czech Rep. Savino Longo, Italy Kinga Kutasi, Hungary Tiberiu Minea, France Bogdana Mitu, Romania Nevena Puač, Serbia Isabel Tanarro, Spain Erik Wagenaars, United Kingdom

Local Organising Committee:

Declan Diver (Chair, University of Glasgow) Alasdair Wilson (University of Glasgow) Kyle Martin (University of Glasgow) Nick Braithwaite (The Open University) Mark Bowden (Liverpool University) Timo Gans (University of York) Bill Graham (Queen's University Belfast) Kirsty Mckay (University of Liverpool) Paul Maguire (Ulster University) Deborah O'Connell (University of York) Abraham Ogwu (University of the West of Scotland) Alan Phelps (Strathclyde University) Craig Stark (Abertay University)

Committee meetings

ESCAMPIG ISC Meeting: July 18th, lunch time in the Turnbull Room ICPIG ISC Meeting: July 18th, 5pm in the Turnbull Room





Location

he conference will take place in Hunter Halls, in the East Quadrangle of the University of Glasgow (see the Campus Map). Hunter Halls can be found by entering the main gate on University Avenue: the Gilbert Scott(GS) building is directly ahead (it's the very large gothic sandstone building with the tower). Enter the GS by heading to the large entrance near the protruding bay window, and head up the stairs. The cloisters should now be on your left: walk across them to the grass square on the other side; Hunter Halls make up the entire side of the quadrangle. Hunter Halls East for the oral presentations, Hunter Hall West for posters, industry exhibitions and refreshment breaks.





Lunch will be served in 1A The Square, which will be exclusive to

Main Gate and path to Hunter Halls ESCAMPIG; please remember to bring your conference badge with you at lunch time, to ensure entry.

Break-out rooms (for the Workshop Discussions) are located in the Gilbert Scott Conference Suite (shown on the map), and the lecture theatre G466, as well as Hunter Halls East. The Tech-X workshop will use one of these rooms.

Wi-fi

There is eduroam access throughout the campus. For those needing alternative connectivity, please use the GUVISITOR identities that will be emailed to you before the conference begins.

Welcome Reception

The conference welcome reception will be hosted by the City Council at the Glasgow City Chambers, George Square, in the heart of the city. The reception will start at 19:30, and should last about 1 hour (drinks and canapes will be served), after which delegates are free to organise the rest of their evening. Please make your own way there: there are multiple transport options (the nearest subway station is Buchanan Street – see below). Delegates can choose to eat from a wide variety of restaurants in the city and the West End (and of course their own hotel). However, the restaurant Browns, right next to the City Chambers (see Map 2), is offering a 20% on their á la carte menu for delegates who wish to dine there – this discount will apply to any meal taken there by delegates for the duration of the conference, including immedi-

ately after the reception.

Transport

Air: from Glasgow Airport, the campus is about 40 mins taxi ride, costing approximately £30. There is an airport coach (First Bus No. 77 and Glasgow Airport Express 500) which connects the airport to Buchanan Street bus station in Glasgow City Centre, from which the campus is a short bus, underground or taxi journey away. The airport bus costs £8 (https://www.firstgroup.com/greater-glasgow/routes-andmaps/glasgow-airport-express).



Underground: the Glasgow Underground (the 3rd oldest in the world, opened in 1896) is known as the subway, denoted by a large orange "S". It offers a rapid,

simple connection in a single ring between the city centre and the West End (and multiple other points), where the University is located (the nearest subway station is Hillhead). A single journey (to anywhere on the circuit) costs £1.70, and is valid only on the day that it is bought. There are multi-journey tickets available (<u>http://www.spt.co.uk/subway/tickets/</u>).

Rail: Glasgow Central Station has connections with all mainline stations to the South, including London Euston. Typical travel times are: London, 5 hours; Birmingham, 4 hours 20 mins; Manchester, 3 hours 20 mins. Services to the North and East of Glasgow are based in Queen Street Station, a short distance from Central. There are many fast trains to Edinburgh from Queen Street, about 40 minutes

journey time. Queen Street and Central are a short distance from the Subway station Buchanan Street (Central is also close to St Enochs).

The closest rail station to the campus is Partick (shown on the map), offering rail services to the city centre, and to the countryside all around, including coastal areas.

Taxi: Taxis are generally plentiful in the West End, and not too expensive. There is a taxi-stance at Hillhead Underground, close to the conference site. A taxi to Glasgow International Airport takes about half an hour.

Bus: there are extensive bus services close to the campus, connecting to the city centre and beyond. Main bus routes are Byres Road, Great Western Road and Dumbarton Road. Many buses also travel along University Avenue, where the campus is located (<u>http://www.spt.co.uk/</u>)

Bike: getting around Glasgow can be done by bicycle – nextbike operate 500 bikes and 53 stations across the city, where you can collect a bike for short term use, and drop it off at convenient locations. See https://www.nextbike.co.uk/en/glasgow/ for details. Campus Map



Glasgow City Centre Map

Campus and surrounding area map



Timetable

Full programme details are given the accompanying table; the outline below is a quick-guide to the daily structure of the events.

Tue	2pm	Registration (also on Wed morning)
Tue	7pm	Welcome Reception, Glasgow City Chambers
Wed	08:45 - 09:00	Welcome Address, Hunter Halls
Wed	09:00 - 10:30	Oral presentations
Wed	10:35 - 11:10	Break (refreshments and snacks)
Wed	11.10 - 12:45	Oral Presentations
Wed	12:45 – 12:55	Lightning presentations: short adverts for forthcoming posters
Wed	12:50 - 14:00	Lunch
Wed	13:30 - 14:30	Optional Tech-X workshop
Wed	14:00 - 15:30	Poster Session 1 (topics 1-5)
Wed	15:30 - 16:00	Break (refreshments and snacks)
Wed	16:00 - 17:30	Workshop 1: Plasmas in multiphase media
Thu	08:45 - 09:00	Feedback on previous day's events
Thu	9am – 10:35	Oral Presentations
Thu	10:35 - 11:10	Break (refreshments and snacks)
Thu	11:10 - 13:05	Oral Presentations
Thu	13:15	Packed lunch collection
Thu	13:30 -	Departure for excursions. Return to campus by c18:00
Fri	08:45 - 09:00	Feedback on previous day's events
Fri	09:00 - 10:35	Oral Presentations
Fri	10:35 - 11:10	Break (refreshments and snacks)
Fri	11:10 - 12:45	Oral Presentations
Fri	12:45 – 12:55	Lightning presentations: short adverts for forthcoming posters
Fri	12:55 – 14:00	Lunch
Fri	14:00 - 15:25	Poster Session 2 (topics 6-12)
Fri	15:25 - 16:00	Break (refreshments and snacks)
Fri	16:00 - 17:30	Workshop 2: Plasmas and living systems

Fri	18:00	Transport to Conference Dinner, return to campus by c22:30
Sat	08:45 - 09:00	Feedback on previous day's events
Sat	09:00 - 10:35	Oral Presentations
Sat	10:35 – 11:10	Break (refreshments and snacks)
Sat	11:10 - 11:55	William Crookes Prize Lecture (D O'Connell)
Sat	11:55 – 12:45	Oral Presentations
Sat	12:45 – 13:00	Closing Remarks and poster prizes
Sat	13:00 - 14:00	Lunch and then departure.

Note that Lightning Presentations are a single power-point slide introducing a poster; there will be a limited number of presenters accepted for this, restricted to 1 minute maximum. Watch out for the invitations!

The feedback on the previous day's events will be a display of information gathered from the talks, and from the workshops. Delegates will be invited to send comments electronically and fully anonymously (full details of the mechanism will be announced closer to the time) on 3 key general questions covering interest, impact and future strategy. This is a chance for all delegates to express an opinion!

Additional conference activities

1 CON

Tech-X will host a short workshop on Physics Simulation Software, to be held in lecture theatre G466, close to the main conference hall.

The University Library Special Collections Unit (Henry Heaney Room Level 12, Main Library) will host a display of rare materials relevant to electricity, plasmas and spectroscopy, dating from 1709 (including F Hauksbee, B Franklin, Lord Kelvin); this will take place on Friday 20th July, 12 noon to 2pm.

110M

The University Bookshop will offer special discounts to conference delegates on selected relevant books throughout the conference period.

Catering

Lunches, tea/coffee breaks are included in the conference registration, as is the conference dinner. Delegates should make their own arrangements for breakfast and evening meals (apart from the conference dinner). Lunches will be served to ESCAMPIG delegates only (including accompanying others if they wish) at 1A The Square, a short walk across the campus from the conference venue. Please remember to bring your conference badge. If you prefer to eat off campus, there are plenty of excellent cafes and restaurants nearby. Coffees, teas, soft drinks and snacks will be served during the programme breaks, in Hunter Hall West, beside the posters and industry exhibits. On the day of the excursions, a packed lunch will be provided to save time.

Conference Dinner

The banquet will be held at the Glasgow Science Centre, on the banks of the River Clyde. Though only a short distance from the campus (about 25 minute walk), transport to and from the Science Centre will be provided. There will be an opportunity to peruse the exhibits before dinner, and each delegate is invited to enjoy a planetarium show in the 15m hemispherical dome digital planetarium, as part of the conference banquet.



https://www.glasgowsciencecentre.org/discover/our-experiences/planetarium

Excursion

Two excursions have been provided, with delegates choosing one: a cruise on Loch Lomond with <u>Sweeney's Cruises</u> (a 1-hour circular tour of the South basin); and a visit to <u>Stirling Castle</u> (self-guided tour). Transport to and from the venues is provided.

Local Area

The University campus is located in Glasgow's West End.

Cultural: On the campus itself there is the Hunterian Museum (<u>https://www.gla.ac.uk/hunterian/</u>), the Hunterian Art Gallery (https://www.gla.ac.uk/hunterian/collections/permanentdisplays/hunterianartgallery/) (both free) and the University Gift Shop (https://www.universityofglasgowshops.com/). Close by – within easy walking distance - is the renowned Kelvingrove Art Gallery and Museum (https://www.glasgowlife.org.uk/museums/venues/kelvingrove-art-gallery-and-museum), and across the road from Kelvingrove is the recently refurbished Kelvin Hall (https://kelvinhall.org.uk/), where the National Library of Scotland digital resources can be found (films, maps, books and manuscripts), including the national Moving Image Archive. Just a bit further away is the award-winning transport museum (https://www.glasgowlife.org.uk/museums/venues/riverside-museum). A short walk from the campus lies the Botanic Gardens (http://www.glasgowbotanicgardens.com/), free to use with grounds, glasshouses and tearooms. The city centre has many cultural venues, including the Gallery of Modern Art (https://www.glasgowlife.org.uk/museums/venues/gallery-of-modern-artgoma), the Glasgow Concert halls (Royal Concert Hall, City Hall and Old Fruitmarket (https://www.glasgowconcerthalls.com)) and the Royal Conservatoire ; also of note are the Theatre Royal, The Tron Theatre, The Pavilion Theatre, The King's Theatre and the Citizens Theatre (http://www.atgtickets.com/shows/glasgow/).

Entertainment: There are several cinemas in Glasgow: the closest to the campus is the Grosvenor (http://grosvenorwestend.co.uk/cinema/); Cineworld (https://www.cineworld.co.uk/cinemas/glasgow-renfrew-street) and Odeon (https://www.odeon.co.uk/cinema/2017/glasgow/) are two of the larger chains, with the Glasgow Film Theatre (https://glasgowfilm.org/) an independent cinema. There is a variety of live entertainment in pubs and clubs (http://www.whatsonglasgow.co.uk/eating-and-drinking/pubs/).

Sports and fitness: Kelvingrove park has several outdoor activities, including free outdoor tennis courts, lawn bowls, fitness sessions, yoga and walks (<u>https://glasgowlife.sportsuite.co.uk/direc-tory/kelvingrove-pavilion</u>). The University of Glasgow Sports facility at the Stevenson Building (swimming pool, gymnasium, sports halls) offers ad-hoc access for visitors at £6 per day, or £15 for 3 days (<u>https://www.gla.ac.uk/myglasgow/sport/</u>).

Full Programme:

Tuesday, July 17th

14:00 registration

19:00 Welcome Reception (Glasgow City Chambers)

Wednesday July 18th

	Session 1 Chairs: Carlos Pintassilgo & Declan Diver
09:00	Giorgio Dilecce "Laser Induced Fluorescence in a collisional environment: the case of OH molecule in a ns pulsed discharge"
09:45	Zdenek Navratil "Optical diagnostics of helium coplanar barrier discharge: pre-break- down light and electric field measurement"
10:15	Gabi Daniel Stancu "Tracking NO absolute density, temperature and hydrodynamics by QCLAS and PLIF in nanosecond post-discharges"
10:35	Break
	Session 2 Chairs: Kinga Kutasi & Frantisek Krcma
11:10	Zoran Petrovic "Overview of the procedure to obtain cross section data from the transport coefficients"
11:55	Thomas Gries "Ultrathin metallic oxide nanostructures synthesized by plasma afterglow- assisted oxidation for photocatalysis applications"
12:25	Dmitry Fursa "Electron-impact dissociation of molecular hydrogen"
12:45	Lightning poster presentations
12:55	Lunch
13:30	Tech-X workshop (1 hour, optional)
14:00	Poster Session 1 (topics 1-5)
15:25	Break
16:00	Workshop 1: Plasmas in multiphase media.
17:30	Close

Thursday, July 19th

	Session 3 Chairs: Savino Longo & Craig Stark
09:00	Anne Bourdon "Modelling and simulation of non-equilibrium plasma discharges"
09:45	Tiago Silva "Understanding the electron and vibration kinetics in CO ₂ plasmas"
10:15	Ana Sofia Morillo Candas "Effect of high surface-area on CO ₂ plasma kinetics"
10:35	Break
	Session 4 Chairs: Nikolay Dyatko & Nevena Puac
11:10	Nickolay Aleksandrov "Kinetics of high-voltage nanosecond discharge plasmas in hydro- carbons and combustible mixtures"
11:55	Aranka Derzsi "The effect of secondary electrons on the discharge characteristics in low pressure CCPs excited by tailored voltage waveforms"
12:25	Augustin Tibère-Inglesse "Experimental study of recombining air and nitrogen plasmas"
12:45	Walter Gekelman (LOC Invited Speaker): "Three-dimensional Measurements of magnetic fields and plasma properties in an industrial etch tool"
13:15	Lunch collection and departure for excursions
Friday,	July 20 th
	Session 5 Chairs: Bogdana Mitu & Tiberiu Minea

09:00	Gheorghe Dinescu "Plasma processing of nanomaterials at low and atmospheric pres-			
	sure"			
09:45	Anton Nikiforov "Atmospheric pressure plasma sources diagnostics as a key to control			
	their utilization in surface or liquid processing"			

10:15	Alexandra Brisset "Spatio-temporal electric field measurements of a diffuse nanosecond atmospheric discharge under very high electric fields"
10:35	Break
	Session 6 Chairs: Erik Wagenaars & Alasdair Wilson
11:10	Ryo Ono "Optical diagnostics in atmospheric-pressure non-thermal plasma"
11:55:	Ana Sobota "Electric field measurements in atmospheric-pressure plasma jets"
12:25	Zoltan Donko "The effect of VUV photons on nanosecond helium microdischarges at at-
	mospheric pressure"
12:45	Lightning poster presentations
12:55	Lunch
14:00	Poster Session 2 (topics 6-12)
15:25	Break
16:00	Workshop 2: Plasmas and living systems
17:30	Close and transport to Conference Dinner
Saturda	y, July 21 st

	Session 7 Chairs: : Ronny Brandenburg & Isabel Tanarro
09:00	Ralf-Peter Brinkmann "Plasma modelling for the understanding and active control of technological plasmas"
09:45	Mario Merino "Kinetic electron response in a rarified plasma jet expanding into vacuum"
10:15	Florian Sigeneger "Phase-resolved modelling of a non-thermal atmospheric pressure RF plasma jet"
10:35	Break
	Session 8 Chairs: Carlos Pintassilgo & Alan Phelps
11:10	Deborah O'Connell
	William Crookes Prize Lecture
11:55	James Walsh "Cold atmospheric-pressure plasmas for improved food safety"
12:25	Craig Stark "Evolution of sub-stellar dust clouds via plasma deposition and sputtering"
12:45	Closing remarks and poster prizes
13:00	Lunch and departure

Text in blue denotes General Invited Speaker (45 minutes); in green denotes a Topical Invited Speaker (30 mins). The talk in purple is the LOC invited talk (30 minutes). Talks in black are Hot Topic Speakers (20 mins).

Poster Presentations

PN is the poster number: look for this on the boards. Unfortunately there is not sufficient space to record all authors, but the conference abstract booklet has a comprehensive author list. Posters 1-111 inclusive will be in session 1 on Wed 18th July; the remainder will be in session 2 on Friday 20th July.

PN	Submitting Author	Title	Торіс
1.	Jung, Young-Dae	Renormalization shielding effect on the electron-impact ionization in dense plasmas	 Atomic and molecular pro- cesses in plasmas
2.	Rice, John	X-ray Observations of K_β Emission from Medium Z Helike lons in C-Mod Tokamak Plasmas	 Atomic and molecular pro- cesses in plasmas
3.	Blin Simiand, Nicole	Butanoic acid and butanoic acid/ethanol mixture re- moval by electro-ceramic barrier discharge	 Atomic and molecular pro- cesses in plasmas
4.	Blin Simiand, Nicole	Acetone decomposition in homogeneous and filamen- tary plasmas of atmospheric gases	 Atomic and molecular pro- cesses in plasmas
5.	Suzuki, Susumu	Determination of Arrhenius equations for collisional quenching rate coefficients of Ar(${}^{3}P_{2}$) by Ar(${}^{1}S_{0}$) and H ₂ O	 Atomic and molecular pro- cesses in plasmas
6.	Aleksandrov, Nickolay	Recombination of electrons with water cluster ions in afterglow of high-voltage nanosecond discharge	 Atomic and molecular pro- cesses in plasmas
7.	Aleksandrov, Nickolay	Collisional quenching of N ₂ (C ³ Π_u) and N ₂ ⁺ (B ² Σ^+_u) by hydrocarbon molecules in nanosecond discharge afterglow	1. Atomic and molecular pro- cesses in plasmas
8.	Fursa, Dmitry	Vibrationally resolved electron-impact excitation of mo- lecular hydrogen	 Atomic and molecular pro- cesses in plasmas
9.	Van de Steen, Cyril	Mobility of Kr_2^+ ions in Kr for cold plasma modelling	 Atomic and molecular pro- cesses in plasmas
10.	Khassenov, Men- dykhan	Emission and level population in noble gases and their binary mixtures ionized by ion beam	 Atomic and molecular pro- cesses in plasmas
11.	Khassenov, Men- dykhan	Luminescence spectra of noble gases and their binary mixtures excited by products of ${}^{6}Li(n,\alpha){}^{3}H$ nuclear reaction	1. Atomic and molecular pro- cesses in plasmas
12.	Wünderlich, Dirk	Yacora on the Web: providing collisional radiative mod- els for plasma spectroscopists	 Atomic and molecular pro- cesses in plasmas
13.	Plasil, Radek	Elementary processes in low temperature plasma down to 30 K – experimental setup	 Atomic and molecular pro- cesses in plasmas
14.	Gibson, Andrew	Calculated electron impact excitation and dissociation cross sections for H ₂ O ₂ and implications for plasma modelling	1. Atomic and molecular pro- cesses in plasmas
15.	Koepke, Mark	Experimental development of iso-electronic line ratio temperature diagnostic for soft x-ray absorption spectra	 Atomic and molecular pro- cesses in plasmas
16.	Bettadj, Latifa	Effects of radiative cascades from higher levels on the properties of the Fe ²⁵⁺ Lyman-line emission following radiative recombination	1. Atomic and molecular pro- cesses in plasmas

17.	Boufatah, Moham- med Reda	Original expression of the nonrelativistic partial cross sections for radiative recombination of bare ions	 Atomic and molecular pro- cesses in plasmas
18.	Chatterjee, Ab- hyuday	O ₂ X, a and b densities and kinetics in pure O ₂ DC dis- charges: VUV absorption, IR emission and Cavity Ring Down Spectroscopy measurements	 Atomic and molecular pro- cesses in plasmas
19.	Krivoruchko, Dariya	Experimental and theoretical investigations of atomic and molecular processes in Hall Thruster plasma	 Atomic and molecular pro- cesses in plasmas
20.	Dosbolayev, Mer- lan	Influence of the cathode sputtering on gas discharge parameters	 Atomic and molecular pro- cesses in plasmas
21.	Tudorovskaya, Ma- ria	Electron-molecule scattering in coma plasma: R-matrix calculations with Quantemol-N	 Atomic and molecular pro- cesses in plasmas
22.	Orszagh, Juraj	Electron induced excitation of molecules relevant for astrophysics	 Atomic and molecular pro- cesses in plasmas
23.	Papp, Peter	Understanding the differences in electron attachment and dissociation of gas phase vs molecular clusters of c- $C_4 F_8$	1. Atomic and molecular pro- cesses in plasmas
24.	Durian, Michal	High sensitivity measurements of electron induced fluorescence of H_2 continuum radiation	 Atomic and molecular pro- cesses in plasmas
25.	Okuyama, Yui	Variations of ion-molecule reactions and observed ion mobility in O_2 with a little amount of impurities	2. Transport phe- nomena; particle velocity distribu- tions
26.	Chernyshev, Timo- fey	Numerical simulation of the kinetic effects in a Hall thruster	 Transport phe- nomena; particle velocity distribu- tions
27.	Tejero-del-Caz, An- tonio	The LisbOn KInetics Boltzmann solver	2. Transport phe- nomena; particle velocity distribu- tions
28.	Babinov, Nikita	ITER in-vessel optics cleaning: Transport and re-deposi- tion of sputtered materials	2. Transport phe- nomena; particle velocity distribu- tions
29.	Vass, Máté	Measurement and kinetic computations of electron transport parameters in acetylene	2. Transport phe- nomena; particle velocity distribu- tions
30.	Ogloblina, Polina	Electron kinetics in CO ₂ /CO mixtures	2. Transport phe- nomena; particle velocity distribu- tions
31.	Schweigert, Irina	Properties of switching devices based on open dis- charge	2. Transport phe- nomena; particle velocity distribu- tions
32.	Schweigert, Irina	Non-uniformity of electron and ion fluxes over emissive surface with debye-scale erosion grooves	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
33.	Sharma, Rohit	Investigation of electron transport properties of two- temperature Argon-Helium thermal plasma	2. Transport phe- nomena; particle velocity distribu- tions

34.	Yamazaki, Masa- hiro	Decomposition efficiency of CO ₂ in recombining hydro- gen plasma with ultralow electron temperature	3. Physical basis of plasma chemis- try
35.	Bilea, Florin	Effect of pulse duration on degradation and mineraliza- tion of 2,4-dichlorophenoxyacetic acid in a corona plasma system	3. Physical basis of plasma chemis- try
36.	Guaitella, Olivier	DC discharges on CO ₂ /Ar mixtures: modelling and experiment	3. Physical basis of plasma chemis- try
37.	Pontiga, Francisco	Comparison between AC DBD and nanosecond pulsed DBD for carbon dioxide dissociation with mixtures of ox- ygen	3. Physical basis of plasma chemis- try
38.	Chatain, Audrey	Experimental characterization of a N ₂ -H ₂ CCP RF dis- charge: electron density, NH ₃ concentration, positive ion populations	 Physical basis of plasma chemis- try
39.	Tejero-del-Caz, An- tonio	The LisbOn KInetics tool suit	3. Physical basis of plasma chemis- try
40.	Brandenburg, Ronny	Multi-Dimensional Time-Correlated Single Photon Counting for Investigation of Microplasma Reactors	 Physical basis of plasma chemis- try
41.	Er, Mine	Synthesis of metallic silver nanoparticles by solution plasma processing – A parametrical study	 Physical basis of plasma chemis- try
42.	Furusato, Tomohiro	Efficient production conditions of OH radicals generated by pulsed surface discharge plasma on water	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
43.	Sasaki, Koichi	Production of droplets by magnetron sputtering of a liq- uid tin target	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
44.	Silva, Carla	Diagnostics of hollow cathode plasma and sputtered materials ejected from small diameter metallic tubes by 2-D deposition patterns on silicon wafer targets	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
45.	lto, Gen	Wall Reflection Model of Low Energy Xenon Ions Accel- erated by Hall Electric Thrusters	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
46.	Viegas, Pedro	Modelling and experimental investigation of plasma- target interaction at atmospheric pressure through electric field characterization	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
47.	Somboonkittichai, Nopparit	Rice Grain Dehydration Enhanced by Sheath Plasma	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
48.	Ellis, James	Surface production of negative ions on nitrogen doped diamond samples	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)

49.	Favre, Mario	Characterization of the on-substrate plasma in Pulsed Laser Deposition of Carbon Films	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
50.	Tavant, Antoine	Effects of secondary electron emission from the ceramic walls on the discharge of Hall effect thrusters using a 2D PIC simulation.	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
51.	Sakudo, Noriyuki	Ion energy bombarding the surface of pulse-biased sample	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
52.	Honnorat, Bruno	Interaction of cold plasma with living tissue: heat and chemical transport across the skin	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
53.	Munoz-Cordovez, Gonzalo	Silicon surface modifications produced by outflows emitted by tungsten conical wire array Z-pinches	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
54.	Davies, Helen	Low Temperature Air Plasmas for Wound Healing Appli- cations	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
55.	Utegenov, Al- masbek	Dust formation during the interaction of a pulsed plasma flow with ITER candidate wall materials	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
56.	Tabares, Francisco	Ammonia formation from H ₂ /N ₂ Glow Discharge plas- mas on metal surfaces in the presence of noble gas bombardment	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
57.	Ussenov, Yerbolat	Thin film deposition by combined plasma jet and spark discharge source at atmospheric pressure	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
58.	Christensen, Paul	The production of ketene and C_5O_2 from CO_2 , N_2 and CH_4 in a non-thermal plasma catalysed by earth-abundant elements: an in-situ FTIR study	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
59.	Christensen, Paul	The Production of Methane, Acetone, "Cold" CO and Oxygenated Species from Isopropyl Alcohol in a Non- Thermal Plasma: An In-Situ FTIR Study	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
60.	Škoro, Nikola	Treatment of flour by surface DBD source in air	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
61.	Škoro, Nikola	Effect of target surface on optical and electrical proper- ties of He plasma jet	4. Plasma surface interactions

			(boundary layers, sheaths, surface
			processes etc)
62.	Medvecká, Ve- ronika	Low-temperature plasma assisted preparation of ce- ramic nanofibers	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
63.	Meehan, David	Composition of various metal-oxide films as a function of depth, deposited by Plasma Enhanced-Pulsed Laser Deposition.	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
64.	Benilov, Mikhail	On the validity of the kinetic Bohm criterion	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
65.	Akbi, Mohamed	Influence of arcing in air on EWF for Silver-Metal Oxide (Ag-MeO) Electrical Contacts	 Plasma surface interactions (boundary layers, sheaths, surface processes etc)
66.	Bhattarai, Shankar	Flexibility, Validity and Susceptibility of Cylindrical Lang- muir Probes for CubeSat and Pico-Satellite to Character- ize Ionosphere and Thermosphere Plasma	5. Plasma diag- nostics
67.	Inada, Yuki	Talbot Interferometer for Two-Dimensional Electron Density Measurement over Positive Secondary Streamer Discharge Propagating in Atmospheric-Pres- sure Air	5. Plasma diag- nostics
68.	Regodón, Guillermo Fer- nando	Radial Langmuir probe models for electronegative plas- mas: Dependance of the floating potential on the geom- etry	5. Plasma diag- nostics
69.	Ding, Chenyang	Time-resolved electron temperature OES measurement in filamentary discharge	5. Plasma diag- nostics
70.	Hansen, Luka	Measurements of the energy flux on an atmospheric pressure surface barrier discharge	 Plasma diag- nostics
71.	Xiong, Qing	Visualization of an atmospheric-pressure micro-glow discharge by multi-advanced diagnostic approaches	5. Plasma diag- nostics
72.	Dyatko, Nikolay	Study of radial distributions of Ar(1s ₅) metastable atom number density in Ar and Ar:N ₂ dc glow discharges	5. Plasma diag- nostics
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