

Submitting Author Last Name	Submitting Author First Name	Abstract Title	Poster #	poster session	Poster Board #
Abe	Shota	Ammonia Molecular Assisted Recombination processes in nitrogen seeded deuterium plasmas	2	Tuesday	1
Akkermans	Gijs	Investigating hydrogen plasma-chemical processes using Optical Emission Spectroscopy in detached Magnum-PSI scenarios	427	Thursday	81
Ali	Adnan	Initial Results from the Hotspot Detection Scheme for Protection of Plasma Facing Components in Wendelstein 7-X	3	Tuesday	2
Allen	Steven	Calibrated Helium and Carbon Ion Flow Measurements in the DIII-D Divertor Plasma	428	Friday	75
Alves	Eduardo	Analysis of retained deuterium on Be-O films: ion implantation vs. in-situ loading	177	Friday	27
Ando	Sosuke	Micro- and macro- elastic properties of tungsten fiber-reinforced tungsten composites probed by nano-indentation and laser ultrasonics	308	Tuesday	61
Andruczyk	Daniel	First results of nano-structured substrates for a stable liquid metal plasma material interface under long pulse conditions	309	Thursday	58
Apicella	Maria	First FTU Tin liquid limiter results and their interpretation with the edge plasma code TECXY	4	Thursday	1
Arakcheev	Aleksey	Calculation of mechanical stresses and deformations near crack caused by pulsed heat load	148	Monday	21
ARNAS	Cecile	High heat loads producing large size dust particles in Alcator C-Mod	149	Tuesday	30
Arrendo	Rodrio	Angle-dependent sputter-yield measurements of keV D ions on Fe and W with a new high-current ion source	150	Thursday	26
Asakura	Nobuyuki	Simulation Study of the Divertor Operation for a DEMO Fusion Reactor	429	Monday	62
Autricque	Adrien	Impact and electrostatic remobilization of W dust on tokamak plasma-facing components	151	Friday	28
Baek	Seung-Gyou	Observations of efficient lower hybrid current drive at high densities in C-Mod by avoiding parasitic wave interactions with the scrape-off layer	6	Friday	1
Bai	Quan	Reduced D trapping by plasma-implanted He nanobubbles in radiation damaged tungsten	310	Friday	51
Baldwin	Matthew	Evidence of D concentration driven trap formation in W	361	Friday	60
Ballinger	Sean	Fast-camera imaging of edge turbulence on Alcator C-Mod and W7-X	7	Monday	1
Bang	Eunnam	Measurements of gap deposition profiles of different shapes of castellated tungsten blocks in KSTAR	362	Monday	51
Baron-Wieche	Aleksandra	Fuel retention across the mid-plane of Outer and Inner Poloidal Limiters tiles in JET. Summary of JET-ILW campaigns ILW-1, ILW-2 and ILW-3	363	Tuesday	72

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Barton	Joseph	Displacement damage recovery in ultra-fine grain tungsten	364	Thursday	70
Baschetti	Serafina	Effects of the electrostatic shear on the edge plasma in a two-field kappa-epsilon like model implemented in the transport code SOLEDGE2D-EIRENE	8	Tuesday	3
Bedoya	Felipe	Oxygen retention in boronized carbon surfaces and its dependence on plasma exposure in the National Spherical Torus Experiment-Upgrade (NSTX-U) investigated with the Materials Analysis Particle Probe (MAPP)	277	Monday	39
Beers	Clyde	Flux Measurements and SiC Erosion Experiments in Proto-MPEX	278	Tuesday	57
Begrambekov	Leon	Influence of glow discharge wall conditioning on the performance of ITER first mirrors	153	Tuesday	31
Benannoune	Sofiane	3D numerical simulations by FEM of diffusion and transient hydrogen trapping processes in plasma facing components	366	Friday	61
Bergstrom	Zachary	Density Functional Theory Study of Hydrogen Interaction with Standoff Volume of Helium Bubbles Above Various Surfaces in Tungsten	313	Thursday	59
Bernert	Matthias	High radiation scenarios and the X-point radiation regime at ASDEX Upgrade	430	Tuesday	86
Besozzi	Edoardo	Nanosecond laser pulses for high heat fluxes tests on various tungsten materials under ITER-relevant conditions	314	Friday	52
Bi	HAILIN	Deuterium transport in a flowing liquid lithium loop under plasma bombardment	210	Thursday	62
Bisson	Regis	Ammonia production and sticking on polycrystalline tungsten and 316L stainless steel	315	Thursday	60
Blommaert	Maarten	A Spatially Hybrid Fluid-Kinetic Neutral Model for SOLPS-ITER Plasma Edge Simulations	9	Thursday	2
Blondel	Sophie	Effect of Bursting Process on Helium Bubble Evolution in the PISCES Experiments with Cluster Dynamics	211	Monday	29
Boedo	Jose	Increased Divertor Plasma Fluctuations with Detachment	10	Friday	2
Boeyaert	Dieter	SOLPS-ITER simulations of Ne-impurity experiments on EAST	11	Monday	2
Bonnin	Xavier	SOLPS-ITER analysis of nitrogen seeding interruption in JET H-modes	368	Monday	52
Borodin	Dmitriy	Improved ERO modelling of beryllium erosion at ITER upper first wall panel using JET ILW and PISCES-B experience	107	Monday	16
Borodkina	Irina	Analytical investigation of W sputtering in quasi-steady-state ELM conditions at JET ITER-like Wall	121	Monday	18

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Bowman	Chris	Improved inference of atomic physics processes in detachment using Bayesian filtered camera tomography	431	Thursday	82
Boyle	Dennis	Enhanced plasma and surface capabilities with beam fueling and heating in the Lithium Tokamak Experiment-Beta (LTX-Beta)	369	Tuesday	73
Bozhenkov	Sergey	Measurement and correction of the b11 error field for W7-X island divertor configurations	12	Tuesday	4
Brezinsek	Sebastijan	Chemically Assisted Physical Sputtering of Tungsten: identification via the 6Pi-6Sigma transition of WD in TEXTOR and ASDEX-Upgrade plasmas	122	Tuesday	25
Bringuier	Stefan	Atomistic Insight into D and He Near-Surface Implantation and Sputtering of Cubic-SiC Crystallographic Surfaces	212	Tuesday	44
Brochard	Frederic	Spatial distribution of dust events in ASDEX Upgrade studied by fast imaging	154	Thursday	27
Budaev	Viacheslav	Nonambipolar mechanism of plasma facing material heating under very high heat loads	213	Thursday	38
Bufferand	Hugo	Investigation of impurity transport with turbulent simulations on WEST	123	Thursday	21
BUZI	Luxherta	Sputtering of Li-C-O compounds under deuterium ion bombardment of plasma-facing component materials	214	Friday	36
Cai	Laizhong	Development of an in-situ diagnostic system for mapping the deposition distribution on PFCs of HL-2M	279	Thursday	52
Calabro'	Giuseppe	Comparison of DTT conventional and advanced divertor configurations	434	Friday	3
Campanell	Michael	Breakdown of the Conventional Sheath Models Under Strong Thermionic Emission: Application to Divertors, Probes, and Other Devices	215	Monday	30
Canik	John	Comparison of particle control potential using lithium injection and cryopumping in the EAST tokamak	371	Thursday	71
Canton	Alessandra	Designing high efficiency glow discharge cleaning systems	497	Friday	90
CAO	Chengzhi	Simulation study on radiative divertor for HL-2M by impurity seeding with SOLPS-ITER	13	Thursday	3
Cao	Bin	Fuel retention during ELM suppression by RMP in KSTAR	372	Friday	62
Carli	Stefano	Sensitivity analysis of plasma edge code parameters through Algorithmic Differentiation	14	Friday	4
Carralero	Daniel	On the effect of shoulder formation on thermal transport in the SOL of ASDEX Upgrade	108	Tuesday	23
Casali	Livia	SOLPS modelling of detachment in the new Small Angle Slot divertor in the DIII-D tokamak	435	Monday	63

Submitting Author Last Name	Submitting Author First Name	Abstract Title	Poster #	poster session	Poster Board #
Chang	Mingyu	The effects of particle recycling on the divertor plasma by a PIC-MCC modelling	16	Monday	3
Chen	YiPing	Simulations of SOL-Divertor Plasmas in EAST with Tungsten Divertor	18	Tuesday	5
Chen	Wanqi	Relationship between spherical nanoindentation stress-strain curve and microstructure of He-implanted tungsten	317	Tuesday	62
Cheng	Long	Retarded recrystallization of helium-exposed tungsten	217	Tuesday	45
Chmielewski	Piotr	TECXY simulations of the onset of plasma detachment in the TCV tokamak	437	Thursday	83
Chrobak	Christopher	Modeling of Aluminum Sputtering and Ionization in the DIII-D Divertor Including Magnetic Pre-Sheath Effects	218	Thursday	39
Churchill	Michael	Pressure balance in a low collisionality tokamak scrape-off layer	19	Thursday	4
Ciraolo	Guido	Kinetic and fluid modelling of non-local parallel heat transport: impact of a localized energy source	20	Friday	5
Classen	Ivo	Detachment studies in the Magnum-PSI linear device during both steady state and transient plasma operation	438	Friday	76
Coburn	Jonathan	Erosion Characterization of Innovative Plasma-Facing Materials on DIII-D using Focused Ion Beam Micro-Trenches	156	Friday	29
Cosfeld	Joerg	3D resolved effective charge state reconstruction with EMC3-EIRENE	124	Friday	23
Coster	David	Exploring the use of Gaussian Process Regression for interpolating SOLPS simulations	21	Monday	4
Covele	Brent	Principles of Closure in the DIII-D SAS 2 Divertor for Optimal Heat Dissipation and Particle Control	439	Monday	64
Dai	Shuyu	3D modelling of the helium retention on a fuzzy tungsten surface morphology	373	Monday	53
Dai	Shuyu	Studies of impurity erosion and deposition on rough surfaces with 3D SURO modelling	219	Friday	39
Dasgupta	Dwaipayana	Modeling of Fuzz Formation in Helium-Ion-Irradiated Tungsten	319	Friday	53
Davis	James	Effects of Argon on Deuterium Retention in Polycrystalline Tungsten	374	Tuesday	74
Dekeyser	Wouter	Implementation of a 9-point stencil in SOLPS-ITER and implications for Alcator C-Mod divertor plasma simulations	22	Tuesday	6
Dellasega	David	Synthesis of porous and nano W,W-O-N, WNx and W-O coatings for plasma surface interaction studies	222	Monday	31
Denis	Julien	Impact of dynamic desorption on the edge plasma modelling of JET H-mode discharge	23	Thursday	5

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Dickheuer	Sven	In-situ measurement of the spectral reflectance of mirror-like metallic surfaces during plasma exposition	223	Tuesday	46
Ding	Fang	The effects of tungsten divertor on H-mode access and detachment in EAST	25	Monday	5
Ding	Rui	Model validation on DIII-D experiments towards understanding of high-Z material erosion and migration in a mixed materials environment	158	Monday	22
DING	Bojiang	Effect of edge plasma density on hot spot in LHCD plasma	24	Friday	6
Dittmar	Timo	The influence of nitrogen seeding on the beryllium erosion in JET	224	Thursday	40
Dominguez-G	Javier	Effects of surface temperature on the chemical sputtering of boronized and oxidized carbon surface irradiated by deuterium	225	Tuesday	47
Donovan	David	Deposition Profile Analysis of Enriched Isotopic Tungsten Tracer Particles from DIII-D Metal Rings Campaign Outer-Midplane Collector Probes	125	Monday	19
Drobny	Jon	Statistical modeling of surface morphology for multi-scale simulations of plasma-surface interactions	226	Thursday	41
Dudson	Ben	Detachment dynamics and sensitivity to control parameters in 1D simulations	441	Tuesday	87
Eichler	Michael	Investigation of hydrogen isotope retention mechanisms in beryllium and beryllium tungsten mixed materials	375	Thursday	72
Eksaeva	Alina	Predictive ERO2.0 modelling of surface roughness effect on W physical sputtering and re-deposition in the linear plasma device PSI-2	126	Tuesday	26
Elder	John	Evidence of near-SOL tungsten accumulation using far-SOL collector probes and OEDGE Modeling in a DIII-D Metal Rings L-mode discharge	127	Thursday	22
Eldon	David	Advances in radiated power control at DIII-D	443	Thursday	84
Emdee	Eric	Study of Lithium Vapor Flow In a Detached Divertor using DSMC code	444	Friday	77
Ezumi	Naomichi	Energy balance during detached plasma operation in the divertor simulation experimental module of GAMMA 10PDX	445	Friday	78
Fan	Dong-Mei	Effect of turbulent fluctuations on neutral particles transport with the TOKAM3X-EIRENE turbulence code	27	Tuesday	7
Feng	Yuhe	Recent progress in implementing ExB drift in EMC3-Eirene	29	Thursday	6
Ferry	Sara	Measuring changes in the thermal and elastic properties of polycrystalline tungsten exposed to helium plasma using transient grating spectroscopy	159	Tuesday	32

Submitting Author Last Name	Submitting Author First Name	Abstract Title	Poster #	poster session	Poster Board #
Fil	Alexandre	Testing predictions of plasma detachment in TCV over a range in magnetic topologies through quantitative comparison to experiment	446	Tuesday	88
Fisher	Adam	Study of Surface Stability for Advanced Liquid Metal Divertors	321	Monday	45
Flesch	Kurt	Effect of RMP application on neutral fueling and exhaust in MAST	376	Friday	63
Francisquez	Manaure	Flux-driven turbulence GDB simulations of the IWL Alcator C- Mod L-mode edge compared with experiment and stochastic model	30	Friday	7
Frerichs	Heinke	Advancements in 3D neutral gas and edge plasma modeling of resonant magnetic perturbations in ITER and their implications for fueling and exhaust	31	Tuesday	8
Gahle	Daljeet	Bayesian Spectroscopic Analysis of N II Line Emission for the Characterisation of Volumetric Plasma Parameters and Atomic Behaviour in Diverted TCV L-Mode Plasmas	128	Friday	24
Gan	Kaifu	Divertor heat flux broadening induced by edge coherent mode in EAST	33	Thursday	7
Gao	Liang	Uptake of Low-energy Neutral Deuterium Species in Sputter-deposited Tungsten Films due to Plasma Loading	230	Thursday	42
Gao	Jinming	An extensive thermal diagnostics package for the determination of diverter heat flux footprints on HL-2A	281	Friday	47
Gaspar	Jonathan	Heat flux analysis of Type I ELM impact on a sloped, protruding surface in the JET bulk tungsten divertor	447	Thursday	85
Gerardin	Jonathan	Simplified heat load modeling for design of DEMO discrete limiter	322	Tuesday	63
Giorgiani	Giorgio	A new high-order fluid solver for tokamak edge plasma transport simulations based on a magnetic-field independent discretization	34	Friday	8
Gonzalez del f	Beatriz	First Principles Molecular Dynamics Study of the Liquid LiSn Surface as a Plasma-Facing Component	160	Thursday	28
Goriaev	Andrei	Development and optimization of He Electron Cyclotron Resonance Heating and He Glow Discharge wall conditioning scenarios for W7-X.	498	Monday	74
Gray	Travis	Evolution of divertor plasmas in EAST with lithium aerosol injection	35	Monday	6
Grisolia	Christian	ps-LIBS diagnostics for tritium measurements in W	283	Monday	40
Grosman	Andre	Synthesis, densification and mechanical properties of nanometric tungsten for fusion applications	161	Friday	30
Groth	Mathias	Impact of molecular deuterium on the particle and power balance in DIII-D detached divertor plasmas	36	Tuesday	9

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Hakola	Antti	Production of ITER-relevant Be-containing laboratory samples for fuel retention investigations	378	Tuesday	75
hamaji	yukinori	Influence of Thermal Shocks on the He Induced Surface Structure on Tungsten	232	Friday	40
Hanada	Kazuaki	Estimation of Fuel Particle balance in steady state operation with hydrogen barrier model	110	Friday	21
Hasegawa	Hiroki	Impurity Ion Transport by Filamentary Plasma Structures	38	Thursday	8
Hatano	Yuji	Tritium distributions on W-coated divertor tiles and selected Be tiles used in the third JET ITER-like wall campaign	379	Thursday	73
Heinola	Kalle	Modelling of the effect of ELMs on fuel recycling at the bulk W divertor target of JET	380	Friday	64
Henderson	Stuart	An assessment of nitrogen concentrations from spectroscopic measurements in the JET and ASDEX Upgrade divertor	448	Friday	79
Hennequin	Pascale	Fluctuation behaviour associated with the different phases of the ELM cycle in ASDEX Upgrade	39	Friday	9
Hill	Christian	Activities at IAEA on data for plasma-material interaction in fusion devices	233	Monday	32
Hiroaki	Nakamura	Optical Property of Nanostructured Tungsten for Plasma Emission Light	234	Tuesday	48
Hirooka	Yoshi	A review of natural and forced convection effects on power and particle removal by liquid plasma-facing components under plasma bombardment	323	Thursday	61
Holm	Andreas	Evaluating the impact of molecules on DIII-D divertor target heat flux densities using UEDGE	40	Monday	7
Holzner	Georg	Determining fundamental transport parameters of hydrogen isotopes in tungsten	381	Monday	54
HONG	Suk-Ho	Infra-red observations of ELM loading on toroidal gap edges of tungsten castellated blocks in the KSTAR divertor	41	Tuesday	11
Horsten	Niels	Hybrid fluid-kinetic neutral model for a 2D detached ITER case	42	Thursday	9
Houben	Anne	Development of tritium permeation barriers for future fusion devices	236	Friday	41
Hu	Xunxiang	Thermal Stability of Tungsten Nanotendrils Grown Under Divertor-like Conditions	165	Tuesday	33
Hubeny	Michael	Diagnostic Setup for the Divertor Manipulator at Wendelstein 7-X	285	Thursday	53
Huber	Alexander	Determination of tungsten sources in JET-ILW divertor by spectroscopic imaging in the presence of strong plasma continuum	44	Friday	10
Hwangbo	Dogyun	Growth process of nano-tendrils bundles with sputtered tungsten	166	Thursday	29



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Ibano	Kenzo	Suppression of wall erosion by vapor shielding at low-Z and high-Z walls	167	Friday	31
Igaune	Ieva	Comparison of the structure of the plasma-facing surface and tritium accumulation in beryllium tiles from JET ILW campaigns 2011-2012 and 2013-2014	382	Tuesday	76
Iijima	Takaaki	Study on dynamic behavior of impurity transport along the magnetic field in detached plasma using linear plasma device.	130	Tuesday	27
Innocente	Paolo	Modeling of power exhaust in DEMO alternative divertor configurations with SOLEDGE2D-EIRENE	449	Monday	65
Inoue	Hiroki	Hydrogen isotope exchange in ion-irradiated tungsten	383	Thursday	74
Islam	Shahinul	Effects of the Gas Puffing Neutral on the Plasma Parameters in the End-Cell of GAMMA 10PDX by using the Multi-Fluid Code LINDA	450	Tuesday	89
Ito	Atsushi	Development of BCA-MD-KMC multi-hybrid simulation method for fuzzy nanostructure formation	237	Monday	33
Ivanova-Stanil	Irena	Analysis of the ramp-down phase of JET ILW discharges	131	Tuesday	28
James	Simpson	Dependence of the upstream separatrix temperature on impurity seeding and separatrix density in EDGE2D-EIRENE simulations for JET H-mode plasmas	46	Monday	8
JAWORSKI	Michael	Effects of finite saturation in porous surface during particle bombardment	238	Tuesday	49
Jepu	Ionut	Beryllium melting and erosion on the upper dump plates in JET facility during three ILW campaigns	168	Monday	23
Jesko	Karol	Simulating Magnum-PSI target gas puff experiments with the SolEdge2D-Eirene transport code	452	Thursday	86
Jin	Shuo	Interaction between hydrogen clusters and point defects in W: an atomistic simulation	384	Friday	65
Johnson	Curtis	Measurements of Tungsten Erosion Using UV Emission from DIII-D and CTH Experiments	169	Tuesday	34
Joseph	Ilon	Kinetic simulation of heat pulse propagation through the tokamak scrape-off layer	453	Friday	80
Kajita	Shin	Directional growth of large scale nanostructures on metallic co-deposition layer	239	Thursday	43
Kakati	Mayur	Studies on formation of tungsten nano tendrils under irradiation of helium plasma in CIRCLE-PSI device	325	Friday	54
Kapat	Aveek	Deciphering hydrogen isotope retention and sputtering in liquid metal-porous tungsten hybrid materials	326	Monday	46
Karhunen	Juuso	SOLPS 5.0 simulations of the inner divertor detachment of L-mode plasmas in ASDEX Upgrade with convection-dominated radial SOL transport	50	Thursday	10



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Kelemen	Mitja	Angular dependence of Fe sputtering by Ar ions at polished and rough surfaces	170	Thursday	30
Kesler	Leigh	Implementation of implanted depth marker technique to study high-Z surfaces in EAST	287	Friday	48
Khan	Aneeqa	WalIDYN simulations of material migration and fuel retention in ITER neon-seeded DT plasmas	171	Friday	32
Khrabry	Alexander	Plasma-material interactions in high-neutral fraction plasmas and in the vicinity of liquid components	240	Friday	42
Knolker	Matthias	Divertor current measurements during type I ELMs in DIII-D	51	Friday	11
Kobayashi	Taisuke	Effects of stochastic magnetic field structure on edge impurity emission distribution in LHD	52	Monday	9
Kobayashi	Masahiro	Change of confinement mode during detachment transition with RMP application in LHD	454	Monday	66
Kobayashi	Shinji	Supersonic molecular beam injection in the tandem mirror GAMMA 10	386	Tuesday	77
Koenig	Ralf	Observations of Strong Reduction of the Power Load onto the Island Divertor Targets of Wendelstein 7-X in the OP1.2a Experimental Campaign - Complete Stable detachment suspected	455	Tuesday	90
Kolasinski	Robert	A multi-technique analysis of helium plasma-induced surface modification of tungsten	242	Tuesday	50
Kolemen	Egemen	Fast Flowing Liquid Metal Divertors for Fusion	327	Tuesday	64
Kraus	Brian	Floating potential of emitting surfaces in plasmas with respect to the space potential	243	Thursday	44
Krawczynska	Agnieszka	Impact of low-Z and high-Z ion-induced damage on the reflectivity molybdenum mirrors and sub-surface distribution of gas bubbles	328	Tuesday	65
Kreter	Arkadi	In-situ observation of reduced sputtering of nano-structured surfaces	173	Monday	24
Krivska	Alena	RF Sheath Modeling of Spectroscopically Observed Plasma Surface Interactions with the JET ITER-Like Antenna	111	Monday	17
Krstic	Predrag	Retention and chemical sputtering of the simultaneously lithiated, boronized and oxidized carbon surfaces irradiated by deuterium	245	Friday	43
Kuang	Adam	Fluctuations at the divertor surface measured by elongated, 'rail' Langmuir probes and their relationship to upstream turbulence	288	Thursday	54
Kube	Ralph	Statistical properties of the heat flux on the outboard mid-plane wall in Alcator C-Mod	113	Tuesday	24
Kuzmin	Arseniy	Measurements of the impurity flow velocity and temperature in a wide plasma parameter range for Deuterium and Hydrogen plasmas in the divertor legs of the stochastic layer in LHD	132	Thursday	23

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Laggner	Florian	Inter-ELM pedestal fluctuations and their parametric (in-)dependencies	54	Tuesday	12
Lang	Eric	Studying the Role of Second Phase Particles in Tungsten Alloys: Mechanical Properties and Response to Low Energy, High Flux D and He Plasmas	329	Friday	55
Lasa	Ane	Multi-physics modeling of the evolution of surfaces exposed to steady-state plasmas	246	Monday	34
LEE	HOSUN	Carbon impurity transport study in an ECR Chamber by utilizing erosion and deposition of a-C:H thin layers	174	Tuesday	35
Lee	Hyungho	Understanding of the outer divertor heat flux splitting during RMP-ELM suppressed regimes in KSTAR	458	Thursday	87
Leonard	Anthony	Parallel Energy Transport in Detached DIII-D Divertor Plasmas	55	Thursday	11
Li	Muyuan	Avoiding deep cracking in tungsten divertor armor under high heat flux loads	331	Monday	47
Li	Yu	Experimental assessment and simulation of stress distribution in tungsten exposed to ITER-like steady-state and transient plasma	332	Tuesday	66
Li	Cong	Elemental Analysis on Wendelstein 7-X Limiter and Divertor Tiles by Laser-Induced Breakdown Spectroscopy (LIBS)	290	Thursday	55
Likonen	Jari	Investigation of deuterium trapping and release in the JET divertor during the third ILW campaign using TDS and TMAP	389	Monday	55
Liu	Dongping	Surface diffusion and growth of W self-interstitials during low energy and large flux H and He ion irradiations of polycrystalline W	175	Thursday	31
Liu	Xiang	Plasma irradiation behaviors of an advanced W-Y2O3 alloy prepared by high energy rate forging	334	Thursday	63
Liu	Jianbin	H-mode detachment and the asymmetry with ITER-like W divertor operation in EAST	56	Friday	12
liu	daoyuan	SOLPS modeling of radiative divertor plasma with impurity seeding during ELM phase in EAST	459	Friday	81
Loarer	Thierry	Predictions for T retention in DT campaigns in JET ITER-Like Wall	390	Tuesday	78
Loch	Stuart	New atomic data for use in W and Mo erosion measurements	247	Tuesday	51
Lombardi	Guillaume	Blistering and hydrogen retention in poly- and single crystals of ITER relevant materials by a joint experimental-modeling approach	248	Thursday	45
Lore	Jeremy	Modeling non-axisymmetry in the DIII-D small angle slot divertor using EMC3-EIRENE	57	Monday	10

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Lunsford	Robert	Utilization of impurity granule induced ELM triggering in next step fusion devices	58	Tuesday	13
Lunt	Tilmann	Snowflake- and X-Divertor configurations in TCV and the future upper divertor of ASDEX Upgrade	461	Monday	67
Maan	Anurag	Investigation of Deuterium Retention in Thick Lithium Oxide Films on High-Z Plasma-Facing Components	249	Friday	44
Maddaluno	Giorgio	Detection by LIBS of the deuterium retained in the FTU toroidal limiter	391	Thursday	75
Maier	Hans	Deuterium retention in tungsten-based materials for fusion applications	335	Friday	56
Mao	Shifeng	Simulation study of the relation between Prad, Zeff and lifetime of W target for CFETR phase II with Ne and Ar seeding	60	Thursday	12
Markelj	Sabina	The effect of hydrogen presence on damage stabilization under simultaneous W ion damaging and D ion exposure	393	Friday	66
Martynova	Yulia	Impact of Kr and Ar seeding on D retention in ferritic-martensitic steels after high fluence plasma exposure	394	Monday	56
Matveev	Dmitry	Modeling of H-D isotope-exchange in Be in UHV laboratory experiments	395	Tuesday	79
Maurizio	Roberto	The effect of the secondary x-point on the Scrape-Off Layer transport in the TCV Snowflake Minus divertor	63	Tuesday	14
Mayer	Matej	Tungsten surface enrichment in EUROFER and Fe-W model systems studied by high-resolution ToF-RBS	250	Monday	35
McCarthy	William	An experimental assessment of methods used to compute secondary electron emission yield for tungsten and molybdenum electrodes based on exposure to Alcator C-Mod scrape-off layer plasmas	291	Friday	49
McLean	Adam	Power accounting using divertor extreme ultraviolet emission in the transition to detachment in DIII-D	463	Tuesday	10
Minissale	Marco	Peculiar release kinetics of deuterium in tungsten revealed by an in situ laser induced desorption technique	396	Thursday	76
Moser	Auna	The role of trapped neutrals in detachment onset and pedestal fueling studies on DIII-D	64	Tuesday	15
Moser	Lucas	Mirror cleaning of Be deposits with helium and deuterium	251	Tuesday	52
Myatra	Omkar	Dynamics of detachment movement in MAST-Upgrade Super-X divertor	464	Thursday	88
Nagata	Masayoshi	Melt tungsten layer surface and droplet splashing by pulse heat flux in the SPICA plasma gun	252	Thursday	46
Nakano	Tomohide	Spatial distribution of highly charged Ne ion in detached divertor plasma of JT-60U	465	Friday	82

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Nakashima	Yousuke	Impact of additional plasma heating on detached plasma formation in divertor simulation experiments using the GAMMA 10PDX tandem mirror	466	Monday	68
Neff	Anton	In-operando observation of helium ion effects on deuterium retention in lithium films on tungsten substrates	499	Tuesday	98
Nelson	Andrew	Deuterium sputtering and retention in lithium-coated plasma-facing components	254	Friday	37
Nespoli	Federico	Misalignment of particle and heat fluxes at the divertor plate: numerical modeling coupling turbulence and transport codes	65	Thursday	13
Neu	Rudolf	Exposure of actively cooled ITER divertor mock-ups in ASDEX Upgrade	337	Monday	48
Nichols	Jacob	Global modeling of wall material migration following boronization in NSTX-U	180	Tuesday	36
Niemann	Holger	Power loads in the divertor phase of Wendelstein 7-X	467	Tuesday	91
Nishijima	Daisuke	Influence of heavier impurity deposition on Cr sputtering under He plasma exposure in multiple linear plasma devices	181	Thursday	32
NISHINO	NOBUHIRO	Estimation of three-dimensional structure on peripheral fluctuation using fast camera images and magnetic field calculation in Heliotron J	293	Monday	41
Nojiri	Kunpei	Effect of gas puff and pump on plasma detachment associated with molecular activated recombination in GAMMA 10PDX	468	Thursday	89
Nygren	Richard	ELM Power Deposition on a Tungsten Leading Edge in a DIII-D He Plasma	469	Friday	83
Oelmann	Jannis	Depth resolved analysis of hydrogen in W7-X graphite components using Laser-Induced Ablation-Quadrupole Mass Spectrometry (LIA-QMS)	294	Tuesday	58
Orchard	Simon	Improved understanding of detachment on JET through improved camera tomography	470	Monday	69
Otsuka	Teppe	Tritium retention characteristics in dust particles in JET with ITER-like wall	398	Friday	67
Ou	Wei	Deuterium retention in tin exposed to fusion-relevant flux plasmas	399	Monday	57
Oya	Makoto	Deuterium retention in neutron irradiated tungsten-rhenium alloy and potassium-doped tungsten	400	Tuesday	80
Pan	Ou	SOLPS simulation for alternative upper divertor geometries in ASDEX Upgrade	471	Tuesday	92
Paradela Pere	Ivan	Assessment of particle and heat loads to the upper open divertor in ASDEX Upgrade and comparison with SOLPS simulations	472	Thursday	90

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Pardanaud	Cedric	JET Be limiter tiles chemical bonding characterization by means of Raman microscopy and comparison with laboratory Be based samples: Be-O and BeOxDy identification	183	Monday	25
Paris	Peeter	Comparison of LIBS results on ITER-relevant samples obtained by nanosecond and picosecond	295	Thursday	56
Parish	Chad	Advanced Electron Microscopy Method Development to Improve Characterization of Plasma-Surface Interactions	338	Tuesday	67
Park	Jae-Sun	SOLPS-ITER analysis of L-mode KSTAR divertor detachment experiments	68	Monday	11
Park	Jin Myung	Integrated modeling of core, edge pedestal and SOL for high betaN steady-state scenarios on DIII-D	67	Friday	13
Pecovnik	Matic	The effect of grain size on the transport of deuterium in tungsten	256	Thursday	47
Pericoli Ridolf	Vincenzo	Liquid Li and Sn as DTT divertor targets, comparison on their effects on the heat loads and SOL properties	69	Tuesday	16
Perillo	Renato	The influence of N2 seeding in a detached-like H2 plasma by means of linear machine Magnum-PSI and numerical simulations.	473	Friday	84
Petersson	Per	Impact of moisture on the disintegration of co-deposited layers and on dust generation: reactor safety case.	185	Thursday	33
Petrie	Thomas	High Performance Double-null Plasmas Under Radiating Mantle Scenarios on DIII-D	70	Thursday	14
Rapp	Juergen	Capabilities of the prototype Material Plasma Exposure eXperiment enabling first reactor relevant SOL, detachment and PMI research	340	Thursday	64
Rasinski	Marcin	Performance of RAFM steels under deuterium plasma exposure with addition of seeded impurities	186	Friday	33
Ratynskaia	Svetlana	Interaction of adhered beryllium-proxy dust with transient plasma heat loads	187	Monday	26
Reimold	Felix	Comparing theoretical and experimental scalings for power exhaust in seeded H-modes with SOLPS simulations of ASDEX Upgrade	71	Friday	14
Reinke	Matthew	Radiative Heat Exhaust in Alcator C-Mod I-Mode Plasmas	474	Friday	85
Riesch	Johann	Development of tungsten fibre-reinforced tungsten as plasma facing material for DEMO	342	Friday	57
Rindt	Peter	Two order of magnitude stress reduction in a 3D-printed tungsten, liquid lithium divertor target	343	Monday	49
Rizkallah	Rabel	Initial testing of two liquid lithium based PFCs, LiMIT and FLiLi, inside a toroidal fusion device, HIDRA	344	Tuesday	68
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Rudolph	Joshua	The effect of thermionic electron currents on molten tungsten splashing from melt pools	188	Tuesday	37
Ruzic	David	Can tritium be extracted from a flowing lithium divertor system fast enough	501	Tuesday	99
Safi	Elnaz	Plasma impurity co-bombardment effects on sputtering of Beryllium and Tungsten	345	Thursday	65
Sakamoto	Mizuki	Hydrogen isotope retention in W inserted a Cr thin layer	402	Thursday	77
Sang	Chaofeng	Effects of divertor target shape and baffling on plasma detachment: from current device to CFETR	75	Tuesday	17
Sarkar	Sanjib	Video analysis of intrinsic dust events in Experimental Advanced Superconducting Tokamak (EAST)	191	Tuesday	38
Schamis	Hanna	Modeling of erosion and deposition on ITER diagnostic first mirrors during glow discharge cleaning	192	Tuesday	39
Schlisio	Georg	First gas balance studies in Wendelstein 7-X operating with inertially cooled graphite divertor	76	Thursday	15
Schmid	Klaus	3D global impurity transport modeling with WalldYN and EMC3-Eirene	193	Thursday	34
Schmitz	Janina	Impact of Ar-seeded and pure D plasmas on WCrY Smart Alloys	258	Thursday	48
Schwartz	Jacob	A lithium vapor box divertor similarity experiment for a linear plasma device	477	Thursday	91
Schwarz-Selin	Thomas	Influence of the presence of deuterium on displacement damage in tungsten	403	Friday	68
Scime	Earl	3D measurements and simulations of ion and neutral velocity distribution functions in the boundary of a magnetized plasma	259	Monday	36
Scotti	Filippo	Scrape-off layer and near-separatrix divertor turbulence in NSTX and NSTX-U discharges	116	Thursday	20
Shafer	Morgan	Dependence of Neutral Pressure in Variable Divertor Geometry on Detachment on DIII-D	478	Friday	86
Shaw	Guinevere	Parametric Investigation of Helium and Deuterium Concentrations in Tungsten Using Laser-based Techniques	260	Monday	37
Shikama	Taiichi	Measurement of the ion species dependence of the intrinsic edge rotation in spherical tokamak QUEST	297	Monday	42
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Sinha	Priyanjana	Development of Heating Scenario to Reduce the Impact of Bootstrap Currents in Wendelstein 7-X	77	Friday	15
Skinner	Charles	Elemental and topographical imaging of microscopic variations in deposition on NSTX-U and DIII-D samples	194	Friday	34
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Son	Soo Hyun	Carbon and deuterium particle transport measured by using cavity technique depending on the alignment to the toroidal magnetic field line at midplane region in KSTAR	117	Friday	22
Song	Inwoo	Spectral modeling of tungsten transport based on a compact advanced extreme ultraviolet spectrometer system for KSTAR	140	Friday	25
Soukhanovski	Vsevolod	Divertor detachment optimization in an unfavorable open geometry horizontal target divertor configuration in NSTX and NSTX-U.	479	Monday	70
Spolaore	Monica	Current density features associated to Type-I and Type-III ELMs in COMPASS tokamak	78	Monday	12
Stadlmayr	Reinhard	Impact of surface roughness on the erosion of fusion relevant materials: comparison of experiment to morphology sensitive Monte-Carlo BCA codes	195	Thursday	35
Stegmeir	Andreas	Numerical study of turbulence in presence of an X-point with the flux-coordinate independent approach	80	Thursday	16
Stotler	Daren	Shadowing Effects in Simulated Alcator C-Mod Gas Puff Imaging Data	298	Tuesday	59
Stroem	Petter	Co-deposition of deuterium and impurity atoms on wall probes in the divertor of JET with ITER-like wall	196	Tuesday	40
Subba	Fabio	Integrated Edge-Core Plasma Modelling for the EU-DEMO	81	Friday	16
Sun	Jizhong	Numerical study of Li species transport in edge plasma during lithium granule injection	141	Monday	20
Sun	Zhen	Active wall conditioning for long pulse plasma by using lithium powder injection in EAST with tungsten divertor	502	Friday	91
Suzuki	Chihiro	Spectroscopic studies on the enhanced radiation with high Z rare gas seeding for divertor detachment in LHD plasmas	481	Thursday	92
Sytova	Elizaveta	Comparing N versus Ne as divertor radiators: SOLPS-ITER simulations of impurity seeding in ASDEX Upgrade-like geometry	482	Friday	87



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Tae Lee	Heun	Tritium penetration by isotope exchange in tungsten	388	Friday	69
Takayama	Arimichi	MD simulation of atomic-scale processes on self-irradiation of tungsten	262	Tuesday	54
Takimoto	Toshikio	Effects of curved divergent magnetic field on heat load in the linear divertor simulator TPD-Sheet IV	483	Monday	71
Tanaka	Hirohiko	Analysis of indefinite multi-peak divertor footprint with proper orthogonal decomposition	83	Monday	13
Taylor	Chase	Direct detection of deep deuterium diffusion in different tungsten grades	409	Friday	70
Terakado	Akihiro	Reaction processes of molecular activated recombination leading to detachment of divertor simulation plasma in GAMMA 10PDX	85	Tuesday	18
Terra	Alexis	Micro-structured tungsten; an advanced plasma-facing material	506	Tuesday	70
Terry	James	Heat-flux Footprints at the Inner Divertor Target During I-mode on the Alcator C-Mod Tokamak	484	Tuesday	94
Thakur	Saikat	Spontaneous plasma detachment studies in divertor relevant helicon plasmas	436	Tuesday	95
Thatipamula	Shekar	Inter ELM coherent fluctuations in divertor Langmuir probe ion saturation current in KSTAR tokamak	86	Thursday	17
Tian	Xie	Investigation of the impurity transport in edge plasma during the injection of the lithium powder in EAST by using EMC3-EIRENE	142	Tuesday	29
Togo	Satoshi	Effect of diverging magnetic fields on plasma profiles in super-X divertors considering the anisotropy of ion temperature	87	Friday	17
TOKITANI	Masayuki	Demonstration of suppression of the dust generation and partly reduction of the hydrogen retention by tungsten coated graphite divertor tiles in LHD	197	Thursday	36
Tolias	Panagiotis	The adhesion of tungsten dust on plasma-exposed tungsten surfaces	198	Friday	35
TOUCHARD	SYLVAIN	AMMONX: a kinetic ammonia production scheme for EIRENE implementation	88	Monday	14
TYNAN	George	Implications of PMI and wall material choice on fusion-reactor tritium self-sufficiency	410	Monday	59
Uccello	Andrea	Temperature dependence of the sputtering yield and the tungsten surface enrichment of Eurofer-97 steel exposed to the deuterium plasma of GyM	264	Thursday	49
Ueda	Yoshio	Hydrogen retention in MeV ion irradiated (H, Fe, W) and neutron irradiated tungsten	411	Tuesday	82

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Unterberg	Bernhard	Experimental studies on tungsten produced by powder injection molding as plasma-facing materials	350	Friday	58
URBANCZYK	Guillaume	Metallic impurity production during ICRH in EAST	144	Friday	26
Vail	Patrick	Divertor Heat Flux and Particle Control on NSTX-U via Optimization of Plasma Boundary and Divertor Shape	486	Friday	88
Valentinuzzi	Matteo	Two-phases hybrid model for neutrals	90	Tuesday	19
VAROUTIS	STYLIANOS	Assessment of the 3D geometrical effects on the DEMO divertor pumping efficiency	412	Thursday	78
Vasilyev	Alexandr	Dynamics of cracks and hot spots formation observed on tungsten surface under transient thermal loads relevant to ITER divertor under transient thermal loads relevant to ITER divertor	199	Monday	27
Vassallo	Espedito	Deuterium retention and erosion in liquid Sn samples exposed to D2 and Ar plasmas in GyM device	265	Friday	45
Veis	Pavel	Simultaneous vacuum UV and broadband UV-NIR spectroscopy for improvement of LIBS characterization of LiSn alloy	301	Monday	43
Verhaegh	Kevin	New insights into the physics and dynamics of divertor ion current loss during divertor detachment in TCV	487	Monday	72
Verma	PRABAL SINGH	Sensitivity of coupled plasma fluid-neutral kinetic edge simulations to the magnetized plasma sheath model	91	Tuesday	60
Vignitchouk	Ladislav	Survival and in-vessel redistribution of disruption-induced beryllium droplets in ITER	200	Tuesday	41
Vincenzi	Pietro	Estimate of 3D wall heat loads due to Neutral Beam Injection in EU DEMO ramp-up phase	488	Tuesday	96
von Toussant	udo	Dynamic changes of sputtering and reflection yields upon energetic particle bombardment of self-consistently evolving 3-D surface morphologies	266	Monday	38
Walkden	Nick	Particle and heat spreading in the tokamak divertor via turbulent mixing	92	Friday	18
Wang	Yongqiang	Helium and hydrogen retention and migration on nanostructured tungsten surfaces	203	Tuesday	42
WANG	Erhui	First spectroscopic measurements of carbon erosion and transport in the divertor plasma of W7-X	202	Thursday	37
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Wauters	Tom	Wall conditioning throughout the first carbon divertor campaign on Wendelstein 7-X	504	Thursday	97
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Wielunska	Barbara	Radiation Damage and Deuterium Retention in Tungsten	267	Tuesday	55
Wiesen	Sven	Application of SOLPS-ITER edge plasma model to interpret seeded and unseeded JET H-mode discharges with metallic wall	95	Tuesday	20
Wigram	Michael	Performance assessment of tightly-baffled long-leg divertor geometries for application in the ARC reactor concept	489	Thursday	94
Woller	Kevin	Crystallographic analysis of corrugations and nano-tendrils bundle growth on tungsten exposed to helium plasma	353	Thursday	67
Wurden	Glen	Modulated heating scenario development for detection of surface layers and hotspots in W7-X	490	Friday	89
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Xiang	Nong	Interactions of the plasma and guard limiters during lower hybrid wave current drive on EAST tokamak	268	Thursday	50
Xie	Hai	Numerical analyses of CFETR scenarios with impurity seeding by the integrated COREDIV code	354	Friday	59
Xu	Yue	Effects of double-layer tungsten coatings on hydrogen isotopes plasma- and gas-driven permeation through F82H	355	Monday	50
XU	GUOLIANG	OEDGE-TRIM.SP simulations of inter- and intra-ELM tungsten erosion during DIII-D H-mode discharges	97	Tuesday	21
Yaala	Marwa	A novel setup for the study of ammonia production from H <sub>2</sub> -N <sub>2</sub> plasmas on tungsten surfaces	312	Thursday	68
Yajima	Miyuki	Kinetics of Deuterium Penetration into Neutron-irradiated Tungsten	417	Tuesday	83
Yang	Tengfei	Plasma exposure behavior of molybdenum and graphite in the EAST tokamak	357	Tuesday	71
Yang	Fan	Rayleigh-Taylor instability of a liquid metal film with magnetohydrodynamic effects	99	Thursday	18
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Younkin	Timothy	Quantification and Sensitivity Analysis on the Effects of Uncertainty On Impurity Migration In PISCES-A	271	Tuesday	56
Yu	Jonathan	Deuterium retention in re-solidified tungsten and mixed beryllium-tungsten material	418	Thursday	79
YU	YAOWEI	Fuel retention and recycling studies in long pulse H-mode discharges in EAST superconducting tokamak	419	Friday	73
Yuan	Yue	Irradiation effect in tungsten resulting from ultra-high fluence deuterium plasma exposure in linear plasma devices STEP and Magnum-PSI	420	Monday	60
Zagorski	Roman	TECXY simulations of the ITER divertor	101	Monday	15
Zakharov	Leonid	Continuously Flowing Liquid Lithium as plasma facing divertor surface for tokamak and burning plasmas	421	Tuesday	84
Zaloznik	Anze	The influence of helium on deuterium retention in beryllium co-deposits	422	Thursday	80
Zanino	Roberto	2D self-consistent modelling of a box-type liquid metal divertor for the DTT facility	492	Tuesday	97
Zhang	Pengfei	OEDGE simulation of W leakage from different divertor configurations in DIII-D H-mode discharges	102	Tuesday	22
Zhang	Wei	Scrape-off layer density tailoring with local gas puffing to maximize ICRF power coupling in ITER	103	Thursday	19
Zhang	Yang	Role of Grain Boundaries on Radiation Damage in Tungsten	272	Thursday	51
Zhang	Xin	Experimental Characterization of the Lithium Tokamak eXperiment-Beta Scrape-Off Layer and a Theoretical Study of Electrostatic Potential in Collisionless Scrape-Off Layers	104	Friday	20
Zhang	Daihong	Impurity radiation characterization for the first limiter and divertor plasmas of W7-X	305	Friday	50
Zhang	Ying	Observation of suppressed and aggravated D-induced blistering on pre-damaged W with different-flux D plasma exposure	423	Friday	74
Zhao	D	In-situ diagnosis of the first wall in nuclear fusion devices by Laser-Induced Breakdown Spectroscopy combined with Laser Speckle Interferometry	306	Monday	44
Zhou	Haishan	Studies on hydrogen isotopes transport through ITER-like PFCs	424	Monday	61
Zhou	Hang	Effect of 800 keV argon ions pre-damage on the helium blister formation of tungsten-tantalum alloys exposed to 60 keV helium ions and its impact on helium retention	358	Thursday	69

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Zibrov	Mikhail	Annealing and clustering of vacancies in tungsten and their influence on deuterium retention	425	Tuesday	85
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Zuo	Guizhong	Divertor heat flux reduction by active and passive Li injection in EAST	494	Thursday	95