

Scientific Publications

by Friedrich Aumayr

Overview

A.	Journal articles in international peer-reviewed ISI-listed journals	280
B.	Edited books, book chapters, and invited contributions to conferences	46
C.	Contributions in conference proceedings and other publications	258
	Total number of publications	584

Publications are listed in reversed chronological order below. For up-to-date ISI statistics, including citations and Hirsch-index, visit ISI ResearcherID online at <http://www.researcherid.com/rid/A-3920-2009>.

Note: The [digital object identifier \(doi\)](#) – URLs below provides a clickable link to the paper at the publisher.

Some PDF-files are also available at <http://www.iap.tuwien.ac.at/www/atomic/publications/list>.

A. Journal articles (peer-reviewed)

2018

- A280 G. F. Harrer, E. Wolfrum, M. G. Dunne, P. Manz, M. Cavedon, P. T. Lang, B. Kurzan, T. Eich, B. Labit, J. Stober, H. Meyer, M. Bernert, F. Laggner, and **F. Aumayr**, and the Eurofusion MST1 Team, and the ASDEX Upgrade Team
Parameter dependences of small edge localized modes (ELMs)
 Nuclear Fusion **58** (2018) 112001 (10 pages)
<https://doi.org/10.1088/1741-4326/aad757>
- A279 J. Schwestka, D. Melinc, R. Heller, A. Niggas, L. Leonhartsberger, H. Winter, S. Facsko, **F. Aumayr**, and R. A. Wilhelm
A versatile ion beam spectrometer for studies of ion interaction with 2D materials
 Review of Scientific Instruments **89** (2018) 085101 (8 pages)
<https://doi.org/10.1063/1.5037798>
- A278 R. A. Wilhelm, E. Gruber, J. Schwestka, R. Heller, S. Fascko, and **F. Aumayr**
Neutralization dynamics of slow highly charged ions in 2D materials
 Applied Sciences **8** (2018) 1050 (16 pages)
<https://doi.org/10.3390/app8071050>
- A277 E. Gruber, L. Bergen, P. Salou, E. Lattouf, C. Grygiel, Y.Y. Wang, A. Benyagoub, D. Levavasseur, J. Rangama, H. Lebius, B. Ban-d'Etat, M. Schleberger, and **F. Aumayr**
High resolution AFM studies of irradiated mica - Following the traces of swift heavy ions under grazing incidence
 Journal of Physics: Condensed Matter **30** (2018) 285001 (8 pages)
<https://doi.org/10.1088/1361-648X/aac7f7>
- A276 P. S. Szabo, R. Chiba, H. Biber, R. Stadlmayr, B. M. Berger, D. Mayer, A. Mutzke, M. Doppler, M. Sauer, J. Appenroth, J. Fleig, A. Foelske-Schmitz, H. Hutter, K. Mezger, H. Lammer, A. Galli, P. Wurz, and **F. Aumayr**
Solar wind sputtering of wollastonite as a lunar analogue material – Comparisons between experiments and simulations
 Icarus **314** (2018) 98 - 105
<https://doi.org/10.1016/j.icarus.2018.05.028>

- A275 R. Stadlmayr, P.S. Szabo, B.M. Berger, C. Cupak, R. Chiba, D. Blöch, D. Mayer, B. Stechauner, M. Sauer, A. Foelske-Schmitz, M. Oberkofler, T. Schwarz-Selinger, A. Mutzke, and **F. Aumayr**
Fluence dependent changes of surface morphology and sputtering yield of iron: Comparison of experiments with SDTrimSP-2D
Nuclear Instruments and Methods in Physics Research B **430** (2018) 42 - 46
<https://doi.org/10.1016/j.nimb.2018.06.004>
- A274 J. Schwestka, R. A. Wilhelm, E. Gruber, R. Heller, R. Kozubek, M. Schleberger, S. Facsko, and **F. Aumayr**
The role of radiative de-excitation in the neutralization process of highly charged ions interacting with a single layer of graphene
Nuclear Instruments and Methods in Physics Research B **422** (2018) 63 - 67
<https://doi.org/10.1016/j.nimb.2018.02.022>
- A273 F. M. Laggner, E. Wolfrum, M. Cavedon, M. G. Dunne, G. Birkenmeier, R. Fischer, M. Willensdorfer, **F. Aumayr**, the EUROfusion MST1 Team and the ASDEX Upgrade Team
Plasma shaping and its impact on the pedestal of ASDEX Upgrade: Edge stability and inter-ELM dynamics at varied triangularity
Nuclear Fusion **58** (2018) 046008 (13 pages)
<https://doi.org/10.1088/1741-4326/aaaa43>
- A272 F. M. Laggner, S. Keerl, J. Gnisen, E. Wolfrum, M. Bernert, D. Carralero, L. Guimaraes, V. Nikolaeva, S. Potzel, M. Cavedon, F. Mink, M. G. Dunne, G. Birkenmeier, R. Fischer, E. Viezzer, M. Willensdorfer, M. Wischmeier, **F. Aumayr**, the EUROfusion MST1 Team and the ASDEX Upgrade Team
Divertor, scrape-off layer and pedestal particle dynamics in the ELM cycle on ASDEX Upgrade
Plasma Physics and Controlled Fusion **60** (2018) 025002 (11 pages)
<http://dx.doi.org/10.1088/1361-6587/aa90bf>
- 2017**
- A271 R.A. Wilhelm, E. Gruber, J. Schwestka, R. Kozubek, T.I. Madeira, J.P. Marques, J. Kobus, A.V. Krasheninnikov, M. Schleberger, and **F. Aumayr**
Interatomic coulombic decay - the mechanism for rapid de-excitation of hollow atoms
Physical Review Letters **119** (2017) 103401 (6 pages)
<http://dx.doi.org/10.1103/PhysRevLett.119.103401>
- A270 B.M. Berger, R. Stadlmayr, D. Blöch, E. Gruber, K. Sugiyama, T. Schwarz-Selinger, and **F. Aumayr**
Erosion of Fe-W model system under normal and oblique D ion irradiation
Nuclear Materials and Energy **12** (2017) 468 - 471
<http://dx.doi.org/10.1016/j.nme.2017.03.030>
- A269 B.M. Berger, P.S. Szabo, R. Stadlmayr, and **F. Aumayr**
Sputtering measurements using a quartz crystal microbalance as a catcher
Nuclear Instruments and Methods in Physical Research B **406** (2017) 533 - 537
<http://dx.doi.org/10.1016/j.nimb.2016.11.039>
- A268 M. Gulka, E. Bourgeois, J. Hruby, P. Siyushev, G. Wachter, **F. Aumayr**, P.R. Hemmer, A. Gali, F. Jelezko, M. Trupke, and M. Nesladek
Pulsed photoelectric coherent manipulation and detection of NV center spins in diamond
Physical Review Applied **7** (2017) 044032 (7 pages)
<https://doi.org/10.1103/PhysRevApplied.7.044032>
- A267 F. M. Laggner, E. Wolfrum, M. Cavedon, F. Mink, M. Bernert, M. G. Dunne, P. A. Schneider, A. Kappatou, G. Birkenmeier, R. Fischer, M. Willensdorfer, **F. Aumayr**, and the EUROfusion MST1 Team, and the ASDEX Upgrade Team
Pedestal structure and inter-ELM evolution for different main ion species in ASDEX Upgrade
Physics of Plasmas **24** (2017) 056105 (8 pages)
<http://dx.doi.org/10.1063/1.4977461>

- A266 C. Dufour, V. Khomrenkov, Y.Y. Wang, Z.G. Wang, **F. Aumayr**, and M. Toulemonde
An attempt to apply the inelastic thermal spike model to surface modifications of CaF₂ induced by highly charged ions: Comparison to swift heavy ions and extension to some others material
Journal of Physics: Condensed Matter **29** (2017) 095001 (16 pages)
<http://dx.doi.org/10.1088/1361-648X/aa547a>
- A265 E. Bourgeois, E. Londero, K. Buczak, Y. Balasubramaniam, G. Wachter, J. Stursa, K. Dobes, **F. Aumayr**, M. Trupke, A. Gali, and M. Nesladek
Enhanced dual-beam excitation photoelectric detection of NV magnetic resonances in diamond
Physical Review B **95** (2017) 041402 (Rapid Communication, 5 pages)
<https://doi.org/10.1103/PhysRevB.95.041402>
- A264 S. Brezinsek, J.W. Coenen, T. Schwarz-Selinger, K. Schmid, A. Kirschner, A. Hakola, F.L. Tabares, H.J. van der Meiden, M.-L. Mayoral, M. Reinhart, E. Tsitrone, T. Ahlgren, M. Aints, M. Airila, S. Almaviva, E. Alves, T. Angot, V. Anita, R. Arredondo Parra, **F. Aumayr**, M. Balden, J. Bauer, M. Ben Yaala, B.M. Berger, R. Bisson, C. Björkas, I. Bogdanovic Radovic, D. Borodin, J. Bucalossi, J. Butikova, B. Butoi, I. Cadez, R. Caniello, L. Caneve, G. Cartry, N. Catarino, M. Cekada, G. Ciraolo, L. Ciupinski, F. Colao, Y. Corre, C. Costin, T. Craciunescu, A. Cremona, M. De Angeli, A. de Castro, R. Dejarnac, D. Dellasega, P. Dinca, T. Dittmar, C. Dobrea, P. Hansen, A. Drenik, T. Eich, S. Elgeti, D. Falie, N. Fedorczyk, Y. Ferro, T. Fornal, E. Fortuna-Zalesna, L. Gao, P. Gasior, M. Gherendi, F. Ghezzi, Z. Gosar, H. Greuner, E. Grigore, C. Grisolia, M. Groth, M. Gruca, J. Grzonka, J.P. Gunn, K. Hassouni, K. Heinola, T. Höschen, S. Huber, W. Jacob, I. Jepu, X. Jiang, I. Jogi, A. Kaiser, J. Karhunen, M. Kelemen, M. Köppen, H.R. Koslowski, A. Kreter, M. Kubkowska, M. Laan, L. Laguardia, A. Lahtinen, A. Lasa, V. Lazic, N. Lemahieu, J. Likonen, J. Linke, A. Litnovsky, Ch. Linsmeier, T. Loewenhoff, C. Lungu, M. Lungu, G. Maddaluno, H. Maier, T. Makkonen, A. Manhard, Y. Marandet, S. Markelj, L. Marot, C. Martin, A.B. Martin-Rojo, Y. Martynova, R. Mateus, D. Matveev, M. Mayer, G. Meisl, N. Mellet, A. Michau, J. Miettunen, S. Möller, T.W. Morgan, J. Mougenot, M. Mozetic, V. Nemanic, R. Neu, K. Nordlund, M. Oberkofler, E. Oyarzabal, M. Panjan, C. Pardanaud, P. Paris, M. Passoni, B. Pegourie, P. Pelicon, P. Petersson, K. Piip, G. Pintsuk, G.O. Pompilian, G. Popa, C. Porosnicu, G. Primc, M. Probst, J. Räsänen, M. Rasinski, S. Ratynskaia, D. Reiser, D. Ricci, M. Richou, J. Riesch, G. Riva, M. Rosinski, P. Roubin, M. Rubel, C. Ruset, E. Safi, G. Sergienko, Z. Siketic, A. Sima, B. Spilker, R. Stadlmayr, I. Steudel, P. Ström, T. Tadic, D. Tafalla, I. Tale, D. Terentyev, A. Terra, V. Tiron, I. Tiseanu, P. Toliás, D. Tskhakaya, A. Uccello, B. Unterberg, I. Uytendoven, E. Vassallo, P. Vavpetic, P. Veis, I.L. Velicu, J.W.M. Vernimmen, A. Voïtkans, U. von Toussaint, A. Weckmann, M. Wirtz, A. Zoloznik, R. Zaplotnik and WP PFC contributors
Plasma-wall interaction studies within the EUROfusion consortium: progress on plasma-facing components development and qualification
Nuclear Fusion **57** (2017) 116041 (9 pages)
<https://doi.org/10.1088/1741-4326/aa796e>
- 2016**
- A263 E. Gruber, R.A. Wilhelm, R. Pétuya, V. Smejkal, R. Kozubek, A. Hierzenberger, B.C. Bayer, I. Aldazabal, A.K. Kazansky, F. Libisch, A.V. Krasheninnikov, M. Schleberger, S. Facsko, A.G. Borisov, A. Arnau, and **F. Aumayr**
Ultrafast electronic response of graphene to a strong and localized electric field
Nature Communications **7** (2016) 13948 (7 pages)
<http://dx.doi.org/10.1038/ncomms13948>
- A262 A.S. El-Said, R.A. Wilhelm, R. Heller, M. Sorokin, S. Facsko, and **F. Aumayr**
Tuning the fabrication of nanostructures by low-energy highly charged ions
Physical Review Letters **117** (2016) 126101 (5 pages)
<http://dx.doi.org/10.1103/PhysRevLett.117.126101>
- A261 B.M. Berger, R. Stadlmayr, G. Meisl, M. Cekada, C. Eisenmenger-Sittner, T. Schwarz-Selinger, and **F. Aumayr**
Transient effects during erosion of WN by deuterium ions studied with the quartz crystal microbalance technique
Nuclear Instruments and Methods in Physical Research B **382** (2016) 82 - 85
<http://dx.doi.org/10.1016/j.nimb.2016.04.060>

- A260 V. Smejkal, E. Gruber, R.A. Wilhelm, L. Brandl, R. Heller, S. Facsko, and **F. Aumayr**
A setup for transmission measurements of low energy multiply charged ions through free-standing few atomic layer films
Nuclear Instruments and Methods in Physical Research B **382** (2016) 119 - 122
<http://dx.doi.org/10.1016/j.nimb.2016.01.023>
- A259 E. Gruber, P. Salou, L. Bergen, M. El Kharrazi, E. Lattouf, C. Grygiel, Y.Y. Wang, A. Benyagoub, D. Levavasseur, J. Rangama, H. Lebius, B. Ban-d'Etat, M. Schleberger, and **F. Aumayr**
Swift heavy ion irradiation of CaF₂ – from grooves to hillocks in a single ion track
Journal of Physics: Condensed Matter **28** (2016) 405001 (7 pages)
<http://dx.doi.org/10.1088/0953-8984/28/40/405001>
- A258 F.M. Laggner, E. Wolfrum, M. Cavedon, F. Mink, E. Viezzer, M.G. Dunne, P. Manz, H. Doerk, G. Birkenmeier, R. Fischer, S. Fietz, M. Maraschek, M. Willensdorfer, and **F. Aumayr**,
the EUROfusion MST1 Team and the ASDEX Upgrade Team
High frequency magnetic fluctuations correlated with the inter-ELM pedestal evolution in ASDEX Upgrade
Plasma Physics and Controlled Fusion **58** (2016) 065005 (8 pages)
<http://dx.doi.org/10.1088/0741-3335/58/6/065005>
- A257 R.A. Wilhelm, E. Gruber, V. Smejkal, S. Facsko, and **F. Aumayr**
Charge-state-dependent energy loss of slow ions. I. Experimental results on the transmission of highly charged ions
Physical Review A **93** (2016) 052708 (4 pages)
<http://dx.doi.org/10.1103/PhysRevA.93.052708>
- 2015**
- A256 E. Gruber, R.A. Wilhelm, V. Smejkal, R. Heller, S. Facsko, and **F. Aumayr**
Interaction of highly charged ions with carbon nano membranes
Journal of Physics: Conference Series **635** (2015) 012027 (7 pages)
<http://dx.doi.org/10.1088/1742-6596/635/1/012027>
- A255 M. Oberkofler, D. Alegre, **F. Aumayr**, S. Brezinsek, T. Dittmar, K. Dobes, D. Douai, A. Drenik, M. Köppen, U. Kruezi, Ch. Linsmeier, C.P. Lungu, G. Meisl, M. Mozetic, C. Porosnicu, V. Rohde, S. G. Romanelli, the ASDEX Upgrade team and JET EFDA Contributors
Plasma-wall interactions with nitrogen seeding in all-metal fusion devices: Formation of beryllium nitride and ammonia
Fusion Engineering and Design **98 - 99** (2015) 1371 - 1374
<http://dx.doi.org/10.1016/j.fusengdes.2015.01.044>
- A254 R.A. Wilhelm, E. Gruber, R. Ritter, R. Heller, A. Beyer, A. Turchanin, N. Klingner, R. Hübner, M. Stöger-Pollach, H. Vieker, G. Hlawacek, A. Götzhäuser, S. Facsko, and **F. Aumayr**
Threshold and efficiency for perforation of 1 nm thick carbon nanomembranes with slow highly charged ions
2D Materials **2** (2015) 035009 (6 pages)
<http://dx.doi.org/10.1088/2053-1583/2/3/035009>
- A253 R.A. Wilhelm, A. S. El-Said, F. Krok, R. Heller, E. Gruber, **F. Aumayr**, and S. Facsko
Highly charged ion induced nanostructures at surfaces by strong electronic excitations
Progress in Surface Science **90** (2015) 377 - 395
<http://dx.doi.org/10.1016/j.progsurf.2015.06.001>
- A252 M. Willensdorfer, E. Fable, E. Wolfrum, **F. Aumayr**, R. Fischer, F. Reimold, F. Ryter and the ASDEX Upgrade Team
Role of electron temperature in the particle transport in the pedestal during pedestal evolution
Journal of Nuclear Materials **463** (2015) 1091 - 1095
<http://dx.doi.org/10.1016/j.jnucmat.2015.01.035>

- A251 A. Wartak, R.J. Berezky, G. Kowarik, K. Tőkési, and **F. Aumayr**
Conceptual design and sample preparation of electrode covered single glass macro-capillaries for studying the effect of an external electric field on particle guiding
Nuclear Instruments and Methods in Physical Research B **354** (2015) 324 -327
<http://dx.doi.org/10.1016/j.nimb.2014.12.055>
- A250 N. Stolterfoht, E. Gruber, P. Allinger, S. Wampl, Y.Y. Wang, M.J. Simon, and **F. Aumayr**
Experiments and simulations of 4.5-keV Ar⁷⁺-ion guiding through a conical glass macrocapillary
Physical Review A **91** (2015) 032705 (8 pages)
<http://dx.doi.org/10.1103/PhysRevA.91.032705>
- 2014**
- A249 K. Dobes, M. Köppen, M. Oberkofler, C.P. Lungu, C. Porosnicu, T. Höschel, G. Meisl, C. Linsmeier, and **F. Aumayr**
Interaction of nitrogen ions with beryllium surfaces
Nuclear Instruments and Methods in Physical Research B **340** (2014) 34 - 38
<http://dx.doi.org/10.1016/j.nimb.2014.06.025>
- A248 E. Gruber, N. Stolterfoht, P. Allinger, S. Wampl, Y.Y. Wang, M.J. Simon, and **F. Aumayr**
Temperature control of ion guiding through tapered capillaries
Nuclear Instruments and Methods in Physical Research B **340** (2014) 1 - 4
<http://dx.doi.org/10.1016/j.nimb.2014.06.023>
- A247 E. Bodewits, R. Hoekstra, K. Dobes, and **F. Aumayr**
Electron-emission processes in highly charged Ar and Xe ions impinging on highly ordered pyrolytic graphite at energies just above the kinetic threshold
Physical Review A **90** (2014) 052703 (9 pages)
<http://dx.doi.org/10.1103/PhysRevA.90.052703>
- A246 A.S. El-Said, R. Heller, R.A. Wilhelm, S. Facsko, and **F. Aumayr**
Surface Modifications of BaF₂ and CaF₂ single crystals by slow highly charged ions
Applied Surface Science **310** (2014) 169 - 173
<http://dx.doi.org/10.1016/j.apsusc.2014.03.083>
- A245 Y. Y. Wang, C. Grygiel, C. Dufour, J. R. Sun, Z. G. Wang, Y. T. Zhao, G. Q. Xiao, R. Cheng, X. M. Zhou, J. R. Ren, S. D. Liu, Y. Lei, Y. B. Sun, R. Ritter, E. Gruber, A. Cassimi, I. Monnet, S. Bouffard, **F. Aumayr** and M. Toulemonde
Energy deposition by heavy ions: Additivity of kinetic and potential energy contributions in hillock formation on CaF₂
Nature Scientific Reports **4** (2014) 5742 (6 pages)
<http://dx.doi.org/10.1038/srep05742>
- A244 K. Dobes, V. Smejkal, T. Schäfer, and **F. Aumayr**
Interaction between seeding gas ions and nitrogen saturated tungsten surfaces
International Journal of Mass Spectrometry and Ion Processes **365-366** (2014) 64 – 67
<http://dx.doi.org/10.1016/j.ijms.2013.11.015>
- A243 A.S. El-Said, R.A. Wilhelm, R. Heller, R. Ritter, G. Wachter, S. Facsko, C. Lemell, J. Burgdörfer, and **F. Aumayr**
Nanostructuring CaF₂ surfaces with slow highly charged ions
Journal of Physics: Conference Series **488** (2014) 012002 (17 pages)
<http://dx.doi.org/10.1088/1742-6596/488/1/012002>
- A242 R.A. Wilhelm, E. Gruber, R. Ritter, R. Heller, S. Facsko, and **F. Aumayr**
Charge exchange and energy loss of slow highly charged ions in 1 nm thick carbon nanomembranes
Physical Review Letters **112** (2014) 153201 (5 pages)
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- A241 M. Willensdorfer, G. Birkenmeier, R. Fischer, F.M. Laggner, E. Wolfrum, G. Veres, **F. Aumayr**, D. Carralero, L. Guimarães, B. Kurzan and the ASDEX Upgrade Team
Characterization of the lithium beam emission spectroscopy at ASDEX Upgrade
Plasma Physics and Controlled Fusion **56** (2014) 025008 (10 pages)
<http://dx.doi.org/10.1088/0741-3335/56/2/025008>

2013

- A240 D. Schrempf, W. Meissl, and **F. Aumayr**
An ultra-compact setup for measuring ion-induced electron emission statistics
Nuclear Instruments and Methods in Physics Research B **317** (2013) 44 - 47
<http://dx.doi.org/10.1016/j.nimb.2012.12.085>
- A239 R. Ritter, Q. Shen, R. A. Wilhelm, R. Heller, R. Ginzl, J. R. Crespo López-Urrutia, S. Facsko, C. Teichert, and **F. Aumayr**
Novel aspects on the irradiation of HOPG surfaces with slow highly charged ions
Nuclear Instruments and Methods in Physics Research B **315** (2013) 252 - 256
<http://dx.doi.org/10.1016/j.nimb.2013.02.025>
- A238 T.N. Makgato, E. Sideras-Haddad, S. Shrivastava, T. Schenkel, R. Ritter, G. Kowarik, **F. Aumayr**, J. Crespo López-Urrutia, S. Bernitt, C. Beilmann, R. Ginzl
Highly charged ion impact induced nanodefects in diamond
Nuclear Instruments and Methods in Physics Research B **314** (2013) 135 - 139
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- A237 R. Ritter, R. A. Wilhelm, R. Ginzl, P. Schadauer, R. Heller, W. Rupp, J. R. Crespo López-Urrutia, S. Facsko, and **F. Aumayr**
Effect of chemical etching on poly (methyl methacrylate) irradiated with slow highly charged ions
Physica Scripta **T156** (2013) 014065 (3 pages)
<http://dx.doi.org/10.1088/0031-8949/2013/T156/014065>
- A236 M. Willensdorfer, E. Fable, E. Wolfrum, L. Aho-Mantila, **F. Aumayr**, R. Fischer, F. Reimold, F. Ryter and the ASDEX Upgrade Team
Particle transport analysis of the density build-up after the L–H transition in ASDEX Upgrade
Nuclear Fusion **53** (2013) 093020 (11 pages)
<http://dx.doi.org/10.1088/0029-5515/53/9/093020>
- A235 C. Lemell, J. Burgdörfer, and **F. Aumayr**
Interaction of charged particles with insulating capillary targets – The guiding effect
Progress in Surface Science **88** (2013) 237 – 278
<http://dx.doi.org/10.1016/j.progsurf.2013.06.001>
- A234 R. Ritter, R. A. Wilhelm, M. Stöger-Pollach, R. Heller, A. Mucklich, U. Werner, H. Vieker, A. Beyer, S. Facsko, A. Götzhäuser, and **F. Aumayr**
Fabrication of nanopores in 1 nm thick carbon nanomembranes with slow highly charged ions
Applied Physics Letters **102** (2013) 063112 (5 pages)
<http://dx.doi.org/10.1063/1.4792511>

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- A233 E. Bodewits, R. Hoekstra, K. Dobes, and **F. Aumayr**
Kinetic energy driven enhancement of secondary electron yields of highly charged ions impinging on thin films of C₆₀ on Au
Physical Review A **86** (2012) 062904 (6 pages)
<http://dx.doi.org/10.1103/PhysRevA.86.062904>
- A232 E. Gruber, G. Kowarik, F. Ladinig, J. P. Waclawek, D. Schrempf, and **F. Aumayr**, R. J. Bereczky, K. Tökési, P. Gunacker, T. Schweigler, C. Lemell, and J. Burgdörfer
Temperature Control of Ion Guiding Through Insulating Capillaries
Physical Review A **86** (2012) 062901 (8 pages)
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- A231 E. Wolfrum, P. Sauter, M. Willensdorfer, F. Ryter, **F. Aumayr**, L. Barrera-Orte, A. Burckhart, E. Fable, R. Fischer, B. Kurzan, T. Puetterich, S. Rathgeber, W. Suttrop, E. Viezzer, and the ASDEX Upgrade Team
Recent progress in understanding the L-H transition physics from ASDEX Upgrade
Plasma Physics and Controlled Fusion **54** (2012) 124002 (6 pages)
<http://dx.doi.org/10.1088/0741-3335/54/12/124002>
- A230 M. Willensdorfer, E. Wolfrum, A. Scarabosio, **F. Aumayr**, R. Fischer, B. Kurzan, R.M. McDermott, A. Mlynek, B. Nold, S.K. Rathgeber, V. Rohde, F. Ryter, P. Sauter, E. Viezzer and the ASDEX Upgrade Team
Electron density evolution after L-H transitions and the L-H/H-L cycle in ASDEX Upgrade
Nuclear Fusion **52** (2012) 114026 (10 pages)
<http://dx.doi.org/10.1088/0029-5515/52/11/114026>
- A229 A.S. El-Said, R.A. Wilhelm, R. Heller, S. Facsko, C. Lemell, G. Wachter, J. Burgdörfer, R. Ritter, and **F. Aumayr**
Phase diagram for nanostructuring CaF₂ surfaces by slow highly charged ions
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