

1. ELENCO COMPLETO DELLE PUBBLICAZIONI SCIENTIFICHE

- [P228] (Contributo in Atti di Convegno) Aprile D., Berton G., Chitarin G., Denizeau S., Patton T., Pilan N., Tollin M., Valente M. "**Design of electrodes for high voltage tests in MITICA**" Proc. - International Symposium on Discharges and Electrical Insulation in Vacuum, ISDEIV 2023, 537 - 5412023 191580 <https://doi.org/10.23919/ISDEIV55268.2023.10200412>
- [P227] (Contributo in Atti di Convegno) Patton T., Aprile D., Berton G., Chitarin G., Denizeau S., D., Pilan N., Tollin M., Trevisan L., Valente M. "**Electrostatic Design of the MITICA Intermediate Electrostatic Shield**", Proc. - International Symposium on Discharges and Electrical Insulation in Vacuum, ISDEIV 2023, 537 - 5412023 191580 <https://doi.org/10.23919/ISDEIV55268.2023.10199353>
- [P226] (Articolo in rivista) E. Sartori, R. Agnello, M. Agostini, M. Barbisan, M. Bigi, M. Boldrin, M. Brombin, V. Candeloro, R. Casagrande, S. Dal Bello, M. Dan, B. Pouradier Duteil, M. Fadone, L. Grando, P. Jain, A. Maistrello, I. Mario, R. Pasqualotto, M. Pavei, A. Pimazzoni, C. Poggi, A. Rizzolo, A. Shepherd, M. Ugoletti, P. Veltri, B. Zaniol, P. Agostinetti, D. Aprile, G. Berton, C. Cavallini, M. Cavenago, G. Chitarin, G. Croci, R. Delogu, M. De Muri, M. De Nardi, S. Denizeau, F. Fellin, A. Ferro, E. Gaio, C. Gasparrini, A. Luchetta, F. Lunardon, G. Manduchi, N. Marconato, D. Marcuzzi, O. McCormack, R. Milazzo, A. Muraro, T. Patton, N. Pilan, M. Recchia, A. Rigoni-Garola, F. Santoro, B. Segalini, M. Siragusa, M. Spolaore, C. Taliercio, V. Toigo, P. Zaccaria, R. Zagorski, L. Zanotto, M. Zaupa, M. Zuin and G. Serianni, "**Highlights of recent SPIDER results and improvements**", JINST 18 C09001(2023) <https://doi.org/10.1088/1748-0221/18/09/C09001>
- [P225] (Articolo in rivista) L. Zanotto, M. Boldrin, G. Chitarin, M. Dan, T. Patton, F. Santoro, V. Toigo, H. Tobar, A. Kojima, H. Decamps "**A strategy to identify breakdown location in MITICA test facility: results of high voltage test campaign**" Fusion Engineering and Design 187 (2023), <https://doi.org/10.1016/j.fusengdes.2022.113381>.
- [P224] (Articolo in rivista) G. Chitarin, N. Marconato, S. Mayer "**Realization and Tests of Prototype Fluxgate Magnetic Sensors for the ITER Neutral Beam Injectors**" Sensors 2023, 23, 1492. <https://doi.org/10.3390/s23031492>.
- [P223] (Articolo in rivista) G. Serianni, E. Sartori, R. Agnello, M. Agostini, M. Barbisan, M. Bigi, M. Boldrin, M. Brombin, V. Candeloro, R. Casagrande, S. Dal Bello, M. Dan, B. P. Duteil, M. Fadone, L. Grando, P. Jain, A. Maistrello, I. Mario, R. Pasqualotto, M. Pavei, A. Pimazzoni, C. Poggi, A. Rizzolo, A. Shepherd, C. Cavallini, M. Ugoletti, P. Veltri, B. Zaniol, P. Agostinetti, D. Aprile, G. Berton, R. Cavenago, M. Cavenago, G. Chitarin, S. Cristofaro, G. Croci, N. Cruz, M. Dalla Palma, E. Gaio, C. Gasparrini, A. Luchetta, F. Lunardon, G. Manduchi, N. Marconato, R. Delogu, M. De Muri, M. De Nardi, S. Denizeau, F. Fellin, A. Ferro, D. Marcuzzi, O. McCormack, R. Milazzo, A. Muraro, T. Patton, N. Pilan, M. Recchia, A. Rigoni-Garola, F. Santoro, B. Segalini, M. Siragusa, M. Spolaore, C. Taliercio, P. Zaccaria, R. Zagorski, L. Zanotto, M. Zaupa, M. Zuin, and V. Toigo "**SPIDER, the Negative Ion Source Prototype for ITER: Overview of Operations and Cesium Injection**" IEEE Trans. on Plasma Science vol. 55, issue 3 (2023) <https://doi.org/10.1109/TPS.2022.3226239>.
- [P222] (Articolo in rivista) T. Patton, D. Aprile, M. Boldrin, G. Chitarin, M. Dan, R. Gobbo, N. Pilan, N. Pomaro, A. Rigoni, M. Valente, L. Zanotto, P. Barbato, M. Fincato, R. Ghiraldelli, L. Lotto, F. Molon, M. Tollin "**Electrical diagnostics for high voltage tests in MITICA**" Fusion Engineering and Design 192 113602 (2023) <https://doi.org/10.1016/j.fusengdes.2023.113602>.
- [P221] (Articolo in rivista) N. Bonanomi, I. Casiraghi, P. Mantica et al and JET contributors "**Role of fast ion pressure in the isotope effect in JET L-mode plasmas**" Nuclear Fusion, vol. 59, no. 9 (2019) <https://doi.org/10.1088/1741-4326/ab2d4f>.
- [P220] (Articolo in rivista) L. Frassinetti, M.G. Dunne, U. Sheikh et al. JET Contributors "**Role of the pedestal position on the pedestal performance in AUG, JET-ILW and TCV and**

- implications for ITER**" Nuclear Fusion, vol. 59, no. 7 (2019) <https://doi.org/10.1088/1741-4326/ab1eb9>.
- [P219] (Articolo in rivista) N. Pilan , M. Cavenago, G. Chitarin , A. De Lorenzi , C. L. Fontana, O. McCormack, R. Gobbo, M. Fincato, L. Lotto, G. Pesavento, F. Pino, E. Spada , S. Spagnolo , and M. Zuin "**Pre-Breakdown Phenomena Between Vacuum Insulated Electrodes: The Role of Accumulation Points in the Onset of Microdischarges**" in IEEE Transactions on Plasma Science, Vol. 50, No. 9, (2022) <https://doi.org/10.1109/TPS.2022.3166351>.
- [P218] (Articolo in rivista) M. Bonotto , M. Brombin , D. Abate , P. Bettini , R. Cavazzana, G. Chitarin , L. Grando, S. Peruzzo , and N. Pomaro "**Upgrade of the Magnetic Fault Detection System of RFX-mod2**" in IEEE Transactions on Plasma Science, Vol. 50, Issue 11, (2022), <https://doi.org/10.1109/TPS.2022.3168387>.
- [P217] (Articolo in rivista) Moradi S.; Anderson J.; Romanelli Hyun-Tae Kim and JET contributors "**Global scaling of the heat transport in fusion plasmas**" Physical Review Research Vol. 2 Issue 1 No. 013027 (2020) <https://doi.org/10.1103/PhysRevResearch.2.013027>.
- [P216] (Articolo in rivista) D. Marcuzzi , V. Toigo, M. Boldrin, G. Chitarin, S. Dal Bello, L. Grando, A. Luchetta, R. Pasqualotto, M. Pavei, G. Serianni, L. Zanotto, R. Agnello, P. Agostinetti, M. Agostini, D. Aprile, M. Barbisan, M. Battistella, G. Berton, M. Bigi, M. Brombin, V. Candeloro, A. Canton, R. Casagrande, C. Cavallini, R. Cavazzana, L. Cordaro, N. Cruz, e, M. Dalla Palma, M. Dan, A. De Lorenzi, R. Delogu, M. De Muri, M. De Nardi, S. Denizeau, M. Fadone, F. Fellin, A. Ferro, E. Gaio, C. Gasparini, F. Gnesotto, P. Jain, A. La Rosa, D. Lopez-Bruna, R. Lorenzini, A. Maistrello, G. Manduchi, S. Manfrin, N. Marconato, I. Mario,, G. Martini, R. Milazzo, T. Patton, S. Peruzzo, N. Pilan, A. Pimazzoni, C. Poggi, N. Pomaro, B. Pouradier-Duteil, M. Recchia, A. Rigoni-Garola, D. Rizzetto, A. Rizzolo, F. Santoro, E. Sartori, B. Segalini, A. Shepherd, h, M. Siragusa, P. Sonato, A. Sottocornola, E. Spada, S. Spagnolo, M. Spolaore, C. Taliercio, P. Tinti, P. Tomsic i, L. Trevisan, M. Ugoletti, M. Valente, M. Valisa, F. Veronese, M. Vignando, P. Zaccaria, R. Zagorski, B. Zaniol, M. Zaupe, M. Zuin, M. Cavenago, D. Boilson, C. Rotti, H. Decamps, F. Geli, A. Sharma, P. Veltri, J. Zacks, M. Simon, F. Paolucci, A. Garbuglia, D. Gutierrez, A. Masiello, G. Mico, C. Labate, P. Readman, E. Bragulat, L. Bailly-Maitre, G. Gomez, G. Kouzmenko, F. Albajar, M. Kashiwagi, H. Tobar, A. Kojima, M. Murayama, S. Hatakeyama, E. Oshita, T. Maejima, N. Shibata, Y. Yamashita, K. Watanabe, N.P. Singh, M.J. Singh, H. Dhola, U. Fantz, B. Heinemann, C. Wimmer, D. Wunderlich, K. Tsumori, G. Croci, G. Gorini, A. Muraro, M. Rebai, M. Tardocchi, L. Giacomelli, D. Rigamonti, F. Taccogna, D. Bruno, M. Rutigliano, S. Longo, S. Deambrosis, E. Miorin, F. Montagner, A. Tonti, F. Panin, "**Lessons learned after three years of SPIDER operation and the first MITICA integrated tests**" Fusion Engineering and Design 191 113590 (2023), <https://doi.org/10.1016/j.fusengdes.2023.113590>.
- [P215] (Articolo in rivista) G. Chitarin, A. Kojima, M. Boldrin , A. Luchetta , D. Marcuzzi, P. Zaccaria, L. Zanotto , V. Toigo , D. Aprile, N. Marconato , T. Patton, N. Pilan , P. Barbato , G. Berton, M. Breda, M. Dan , M. Fincato, L. Lotto, A. Rigoni-Garola , E. Sartori, M. Tollin, M. Valente, L. Grando, N. Pomaro, A. De Lorenzi, J. Hiratsuka , M. Ichikawa , M. Kasaki, M. Murayama, G. M. Saquilayan, H. Tobar, N. Umeda, K. Watanabe, and M. Kashiwagi, "**Strategy for Vacuum Insulation Tests of MITICA 1 MV Electrostatic Accelerator**" in IEEE Transactions on Plasma Science, vol. 50, No. 9, Sept. 2022 <https://doi.org/10.1109/TPS.2022.3168341>.
- [P214] (Articolo in rivista) F. Taccogna, S. Bechu, A. Aanesland, P. Agostinetti, R. Agnello, S. Aleiferis, T. Angot, V. Antoni, M. Bacal, M. Barbisan, J. Bentounes, A. Bès, M. Capitelli, G. Cartry, M. Cavenago, R. Celiberto, G. Chitarin, R. Delogu, A. De Lorenzi, F. Esposito, M. Fadone, N. Ferron, G. Fubiani, I. Furno, L. Gavilan, P. Guittienne, A. Howling, R. Jacquier, A. Laricchiuta, J.M. Layet, J.L. Lemaire, S. Longo, B. Maurice, P. Minelli, M. Minissale, M. Mitrou, R. Moussaoui, A. Pimazzoni, C. Poggi, D. Rafalskyi, E. Salomon, E. Sartori, M. Sasao, G. Serianni, E. Spada, S. Suweis, P. Svarnas, L. Tahri, M. Ugoletti, V. Variale, P. Veltri, "**Latest experimental and theoretical advances in the production of negative ions in caesium-free plasma**" Eur. Phys. Journal D, 75, no. 8 (2021) <https://doi.org/10.1140/epjd/s10053-021-00228-y>.
- [P213] (Articolo in rivista) Sartori, E.; Agostini, M.; Barbisan, M.; Bigi, M.; Boldrin, M.; Brombin, M.; Casagrande, R.; Dal Bello, S.; Dan, M.; Duteil, B.; Fadone, M.; Grando, L.; Maistrello, A.; Pavei, M.; Pimazzoni, A.; Poggi, C.; Rizzolo, A.; Shepherd, A.; Ugoletti, M.; Veltri, P.; Zaniol, B.; Agnello, R.; Agostinetti, P.; Antoni, V.; Aprile, D.; Candeloro, V.; Cavallini, C.; Cavazzana, R.; Cavenago, M.;

- Chitarin, G.; Cristofaro, S.; Dalla Palma, M.; Delogu, R.; De Muri, M.; Denizeau, S.; Fellin, F.; Ferro, A.; Gasparrini, C.; Jain, P.; Luchetta, A.; Manduchi, G.; Marconato, N.; Marcuzzi, D.; Mario, I.; Milazzo, R.; Pasqualotto, R.; Patton, T.; Pilan, N.; Recchia, M.; Rigoni, A.; Segalini, B.; Siragusa, M.; Spolaore, M.; Taliercio, C.; Toigo, V.; Zagórski, R.; Zanotto, L.; Zaupa, M.; Zuin, M.; Serianni, G.: "**First operations with caesium of the negative ion source SPIDER**" Nuclear Fusion, vol. 62, no. 8 (2022) <https://doi.org/10.1088/1741-4326/ac715e> .
- [P212] (Articolo in rivista) D. Aprile, G. Chitarin, L. Lotto, M. Fincato, T. Patton, N. Pilan, M. Valente "**Optical diagnostics for high voltage tests in MITICA**" IEEE Trans. on Plasma Science <https://doi.org/10.1109/TPS.2022.3177781> .
- [P211] (Contributo in Atti di Convegno) G. Berton, G. Chitarin, T. Patton, N. Pilan, M. Tollin, M. Valente "**Design of electrodes for high voltage tests in MITICA**" 29th IEEE Symposium on Fusion Engineering (SOFE-2021) (Virtual Event), 12-16/12/2021
- [P210] (Contributo in Atti di Convegno) G. Chitarin, A. Kojima, A. Luchetta, D. Marcuzzi, P. Zaccaria, L. Zanotto, V. Toigo, D. Aprile, N. Marconato, T. Patton, N. Pilan, G. Berton, M. Breda, M. Dan, M. Fincato, A. Rigoni-Garola, M. Valente, M. Battistella, M. Boldrin, L. Grando, N. Pomaro, A. De Lorenzi, H. Tobar, N. Umeda, K. Watanabe, M. Kashiwagi "**Preparation of the vacuum insulation tests on the MITICA 1 MV electrostatic Accelerator**" 2020 29th International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV), 2021, pp. 437-441, <https://doi.org/10.1109/ISDEIV46977.2021.9587135>
- [P209] (Contributo in Atti di Convegno) N. Pilan, M. Cavenago, G. Chitarin, A. De Lorenzi, C.L. Fontana, O. McCormack, R. Gobbo, M. Fincato, L. Lotto, G. Pesavento, F. Pino, E. Spada, S. Spagnolo and M. Zuin, "**Pre-breakdown phenomena between electrodes in vacuum: the role of accumulation points in the onset of microdischarges**" 2020 29th International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV), 2021, pp. 85-88, <https://doi.org/10.1109/ISDEIV46977.2021.9587084> .
- [P208] (Articolo in rivista) V. Toigo, D. Marcuzzi, G. Serianni, M. Boldrin, G. Chitarin, S. Dal Bello, L. Grando, A. Luchetta, R. Pasqualotto, P. Zaccaria, L. Zanotto, R. Agnello, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, M. Barbisan, M. Battistella, G. Berton, M. Bigi, M. Brombin, V. Candeloro, A. Canton, R. Casagrande, C. Cavallini, R. Cavazzana, L. Cordaro, N. Cruz, M. Dalla Palma, M. Dan, A. De Lorenzi, R. Delogu, M. De Muri, S. Denizeau, M. Fadone, F. Fellin, A. Ferro, E. Gaio, F. Gasparini, C. Gasparrini, F. Gnesotto, P. Jain, P. Krastev, D. Lopez-Bruna, g. R. Lorenzini, A. Maistrello, G. Manduchi, S. Manfrin, N. Marconato, E. Martines, G. Martini, S. Martini, R. Milazzo, T. Patton, M. Pavei, S. Peruzzo, N. Pilan, A. Pimazzoni, C. Poggi, N. Pomaro, B. Pouradier-Duteil, M. Recchia, A. Rigoni-Garola, A. Rizzolo, E. Sartori, A. Shepherd, M. Siragusa, P. Sonato, A. Sottocornola, E. Spada, S. Spagnolo, M. Spolaore, C. Taliercio, D. Terranova, P. Tinti, P. Tomsic, L. Trevisan, M. Ugoletti, M. Valente, M. Vignando, R. Zagorski, A. Zamengo, B. Zaniol, M. Zaupa, M. Zuin, M. Cavenago, D. Boilson, C. Rotti, P. Veltri, H. Decamps, M. Dremel, J. Graceffa, F. Geli, M. Urbani, J. Zacks, T. Bonicelli, F. Paolucci, A. Garbuglia, G. Agarici, G. Gomez, D. Gutierrez, G. Kouzmenko, C. Labate, A. Masiello, G. Mico, J-F Moreno, V. Pilard, A. Rousseau, M. Simon, M. Kashiwagi, H. Tobar, K. Watanabe, T. Maejima, A. Kojima, E. Oshita, Y. Yamashita, S. Konno, M. Singh, A. Chakraborty, H. Patel, N. P. Singh, U. Fantz, F. Bonomo, S. Cristofaro, B. Heinemann, W. Kraus, C. Wimmer, D. Wunderlich, G. Fubiani, K. Tsumori, G. Croci, G. Gorini, O. McCormack, A. Muraro, M. Rebai, M. Tardocchi, L. Giacomelli, D. Rigamonti, F. Taccogna, D. Bruno, M. Rutigliano, M. D'Arienzo, A. Tonti, F. Panin, "**On the road to ITER NBIs: SPIDER improvement after first operation and MITICA construction progress**" Fusion Engineering and Design 168 (2021) 112622, <https://doi.org/10.1016/j.fusengdes.2021.112622> .
- [P207] (Contributo in Atti di Convegno) A. De Lorenzi, N. Pilan, G. Chitarin, M. Kashiwagi, A. Kojima, N. Umeda, H.P.L. de Esch, L. Svensson, H. Tobar, "**HV Holding in Vacuum, a Key Issue for the ITER Neutral Beam Injector**" 2018 28th International Symposium on Discharges and Electrical Insulation in Vacuum (ISDEIV), Greifswald, Germany, 2018, pp. 721-730, <https://doi.org/10.1109/DEIV.2018.8537143> .
- [P206] (Articolo in rivista) G. Serianni, V. Toigo, M. Bigi, M. Boldrin, G. Chitarin, S. Dal Bello, L. Grando, A. Luchetta, D. Marcuzzi, R. Pasqualotto, N. Pomaro, P. Zaccaria, L. Zanotto, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, M. Barbisan, M. Battistella, M. Brombin, A. Canton, R. Cavazzana,

- M. Dalla Palma, M. Dan, R. Delogu, A. De Lorenzi, M. De Muri, S. Denizeau, M. Fadone, F. Fellin, A. Ferro, E. Gaio, G. Gambetta, F. Gasparini, F. Gnesotto, P. Jain, A. Maistrello, G. Manduchi, S. Manfrin, G. Marchiori, N. Marconato, M. Moresco, T. Patton, M. Pavei, S. Peruzzo, N. Pilan, A. Pimazzoni, R. Piovan, C. Poggi, M. Recchia, A. Rigoni, A. Rizzolo, G. Rostagni, E. Sartori, M. Siragusa, P. Sonato, E. Spada, S. Spagnolo, M. Spolaore, C. Taliercio, P. Tinti, M. Ugoletti, M. Valente, A. Zamengo, B. Zaniol, M. Zaupa, M. Cavenago, D. Boilson, C. Rotti, P. Veltri, J. Chareyre, H. Decamps, M. Dremel, J. Graceffa, F. Geli, B. Schunke, L. Svensson, M. Urbani, T. Bonicelli, G. Agarici, A. Garbuglia, A. Masiello, F. Paolucci, M. Simon, L. Bailly-Maitre, E. Bragulat, G. Gomez, D. Gutierrez, C. Labate, G. Mico, J. F. Moreno, V. Pilard, G. Kouzmenko, A. Rousseau, A. Chakraborty, U. Baruah, H. Patel, N. P. Singh, A. Patel, H. Dhola, B. Raval, S. Cristofaro, U. Fantz, B. Heinemann, W. Kraus, M. Kashiwagi, and H. Tobar: **First operation in SPIDER and the path to complete MITICA**, Rev. Sci. Instrum. 91, 023510 (2020) ; <https://doi.org/10.1063/1.5133076>.
- [P205] (Articolo in rivista) Alberto Maistrello, Mauro Recchia, Andrea Zamengo, Marco Bernardi, Giuseppe Chitarin, Mattia Dan, Ferdinando Gasparini, Palak Jain, Marco Bigi, Elena Gaio, Diego Marcuzzi, Mauro Pavei, Loris Zanotto: **Improvements in the SPIDER RF system**, Fusion Engineering and Design 167 (2021) 112337; <https://doi.org/10.1016/j.fusengdes.2021.112337>.
- [P204] (Articolo in rivista) E. Joffrin et al: **Overview of the JET preparation for deuterium-tritium operation with the ITER like-wall**, (2019) Nucl. Fusion 59 112021; <https://doi.org/10.1088/1741-4326/ab2276>.
- [P203] (Articolo in rivista) S. Denizeau, D. Aprile, P. Agostinetti, F. Veronese, T. Patton, A. Pimazzoni, J. Hiratsuka, M. Ichikawa, G. M. Saquilayan, A. Kojima, M. Kashiwagi, G. Chitarin: **Benchmark of beam acceleration codes on a high voltage negative ion accelerator for fusion with a new hypothesis on the beam meniscus**, (2021) Fusion Engineering and Design 168 (2021) 112374, <https://doi.org/10.1016/j.fusengdes.2021.112374>.
- [P202] (Articolo in rivista) S Denizeau, D Aprile, G Fubiani, F Taccogna, P Minelli, M Ichikawa, J Hiratsuka, M Kashiwagi, A Kojima and G Chitarin: **Experimental and numerical investigation on the asymmetry of the current density extracted through a plasma meniscus in negative ion accelerator**, (2020) Plasma Sources Sci. Technol. 29 075012 (2020); <https://doi.org/10.1088/1361-6595/ab9cc2>.
- [P201] (Articolo in rivista) Fitzgerald, M.;Buchanan, J.;Sharapov, S. E.; et al.: **Full-orbit and drift calculations of fusion product losses due to explosive fishbones on JET**, Nuclear Fusion, vol. 59, no. 1 (2019) <https://doi.org/10.1088/1741-4326/aea1e>.
- [P200] (Articolo in rivista) Daniele Aprile, Tommaso Patton, Nicola Pilan and Giuseppe Chitarin: **Design of a System for Performing High-Voltage Holding Test Campaigns on a Mockup of MITICA Negative Ion Source**, 2020 IEEE Trans. On Plasma Science vol. 48, no. 6, June 2020 ISSN:0093-3813 <https://doi.org/10.1109/TPS.2020.2966911>.
- [P199] (Articolo in rivista) Daniele Aprile, Piero Agostinetti, Sylvestre Denizeau, and Giuseppe Chitarin: **Mapping of Magnetic Field of SPIDER by a Three-Axis Automatic Positioning System**, 2020 IEEE Trans. On Plasma Science, vol. 48, no. 6, June 2020 ISSN:0093-3813 <https://doi.org/10.1109/TPS.2019.2955063>.
- [P198] (Articolo in rivista) V. Toigo, S. Dal Bello, M. Bigi, M. Boldrin, G. Chitarin, L. Grando, A. Luchetta, D. Marcuzzi, R. Pasqualotto, N. Pomaro, G. Serianni, P. Zaccaria, L. Zanotto, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, M. Barbisan, M. Battistella, M. Brombin, R. Cavazzana, M. Dalla Palma, M. Dan, S. Denizeau, A. De Lorenzi, R. Delogu, M. De Muri, M. Fadone, F. Fellin, A. Ferro, A. Fiorentin, E. Gaio, G. Gambetta, F. Gasparini, F. Gnesotto, P. Jain, A. Maistrello, G. Manduchi, S. Manfrin, G. Marchiori, N. Marconato, M. Moresco, E. Ocello, T. Patton, M. Pavei, S. Peruzzo, N. Pilan, A. Pimazzoni, R. Piovan, C. Poggi, M. Recchia, A. Rizzolo, G. Rostagni, E. Sartori, M. Siragusa, P. Sonato, A. Sottocornola, E. Spada, S. Spagnolo, M. Spolaore, C. Taliercio, P. Tinti, M. Ugoletti, M. Valente, A. Zamengo, B. Zaniol, M. Zaupa, D. Boilson, C. Rotti, P. Veltri, J. Chareyre, H. Decamps, M. Dremel, J. Graceffa, F. Geli, B. Schunke, L. Svensson, M. Urbani, T. Bonicelli, G. Agarici, A. Garbuglia, A. Masiello, F. Paolucci, M. Simon, L. Bailly-Maitre, E. Bragulat, G. Gomez, D. Gutierrez, C. Labate, G. Mico, J.F. Moreno, V. Pilard, G. Kouzmenko, A. Rousseau, M. Kashiwagi, H. Tobar, K. Watanabe, T. Maejima, A. Kojima, N. Umeda, S. Sasaki, A. Chakraborty, U. Baruah,

- H. Patel, N.P. Singh, A. Patel, H. Dhola, B. Raval, V. Gupta, U. Fantz, B. Heinemann, W. Kraus, M. Cavenago, S. Hanke, S. Ochoa, P. Blatchford, B. Chuilon, Y. Xue, G. Croci, G. Gorini, A. Muraro, M. Rebai, M. Tardocchi, M. D'Arienzo, S. Sandri, A. Tonti and F. Panin: **Progress in the ITER neutral beam test facility**, Nucl. Fusion 59 (2019) 086058, <https://doi.org/10.1088/1741-4326/ab2271> .
- [P197] (Articolo in rivista) V. Antoni, F. Taccogna, P. Agostinetti, M. Barbisan, M. Cavenago, G. Chitarin, N. Ferron, P. Minelli, A. Pimazzoni, C. Poggi, E. Sartori, G. Serianni, S. Suweis, M. Ugoletti, P. Veltri: **Negative ion beam source as a complex system: identification of main processes and key interdependence**, Rendiconti Lincei. Scienze Fisiche e Naturali, <https://doi.org/10.1007/s12210-019-00798-5> .
- [P196] (Articolo in rivista) G. Serianni, V. Toigo, M. Bigi, M. Boldrin, G. Chitarin, S. Dal Bello, L. Grandò, A. Luchetta, D. Marcuzzi, R. Pasqualotto, N. Pomaro, P. Zaccaria, L. Zanutto, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, M. Barbisan, M. Battistella, M. Brombin, R. Cavazzana, M. Dalla Palma, M. Dan, A. De Lorenzi, R. Delogu, M. De Muri, S. Denizeau, M. Fadone, F. Fellin, L. Ferbel, A. Ferro, E. Gaio, G. Gambetta, F. Gasparini, F. Gnesotto, P. Jain, A. Maistrello, G. Manduchi, S. Manfrin, G. Marchiori, N. Marconato, M. Moresco, T. Patton, M. Pavei, S. Peruzzo, N. Pilan, A. Pimazzoni, R. Piovani, C. Poggi, M. Recchia, A. Rizzolo, G. Rostagni, E. Sartoria, M. Siragusa, P. Sonato, E. Spada, S. Spagnolo, M. Spolaorea, C. Taliercio, P. Tinti, M. Ugoletti, M. Valente, A. Zamengo, B. Zaniol, M. Zaupa, C. Baltador, M. Cavenago, D. Boilson, C. Rotti, P. Veltri, T. Bonicelli, F. Paolucci, S. Muriel, A. Masiello, A. Chakraborty, H. Patel, N.P. Singh, U. Fantz, B. Heinemann, W. Kraus, M. Kashiwagi, K. Tsumori, **"SPIDER in the roadmap of the ITER neutral beams"**, Fusion Engineering and Design 146, (2019), <https://doi.org/10.1016/j.fusengdes.2019.04.036> .
- [P195] (Articolo in rivista) M. Pavei, D. Marcuzzi, P. Zaccaria, P. Agostinetti, D. Aprile, A. Barzon, L. Basseggio, M. Bernardi, M. Bigi, M. Boldrin, M. Brombin, V. Cervaro, G. Chitarin, S. Dal Bello, F. Degli Agostini, D. Fasolo, L. Franchin, G. Gambetta, A. Garbuglia, F. Geli, J. Graceffa, L. Grandò, B. Laterza, A. Masiello, R. Pasqualotto, M. Recchia, A. Rizzolo, F. Rossetto, G. Serianni, A. Sottocornola, M. Spolaorea, A. Tiso, V. Toigo, M. Tollin, A. Zamengo, L. Zanutto **"Spider beam source ready for operation"**, Fusion Engineering and Design 146 (2019); <https://doi.org/10.1016/j.fusengdes.2019.01.067> .
- [P194] (Articolo in rivista) G. Chitarin, A. Kojima, D. Aprile, P. Agostinetti, M. Barbisan, S. Denizeau, M. Ichikawa, J. Hiratsuka, M. Kashiwagi, N. Marconato, A. Pimazzoni, E. Sartori, G. Serianni, P. Veltri, M. Yoshida **"Improving a negative ion accelerator for next generation of neutral beam injectors: Results of QST-Consorzio RFX collaborative experiments"**, Fusion Engineering and Design, 146, (2019); <https://doi.org/10.1016/j.fusengdes.2019.01.081> .
- [P193] (Contributo in volume, capitolo o saggio) D. Aprile, P. Agostinetti, C. Baltador, S. Denizeau, J. Hiratsuka, M. Ichikawa, M. Kashiwagi, A. Kojima, N. Marconato, A. Pimazzoni, E. Sartori, G. Serianni, P. Veltri, M. Yoshida, and G. Chitarin, **"Complete compensation of criss-cross deflection in a negative ion accelerator by magnetic technique"**, AIP Conference Proceedings 2052, 070001 (2018); <https://doi.org/10.1063/1.5083781> .
- [P192] (Contributo in volume, capitolo o saggio) T. Patton, N. Pilan, P. Bettini, G. Chitarin, A. De Lorenzi, D. Marcuzzi, E. Sartori, M. Siragusa, and L. Trevisan, **"MITICA intermediate electrostatic shield: Concept design, development, and first experimental tests identification"**, AIP Conference Proceedings 2052, 030002 (2018); <https://doi.org/10.1063/1.5083730> .
- [P191] (Contributo in volume, capitolo o saggio) M. Fadone, V. Antoni, D. Aprile, G. Chitarin, A. Fassina, E. Martines, G. Serianni, E. Sartori, F. Taccogna, M. Zuin, **"Plasma characterization of a Hall effect thruster for a negative ion source concept"**, AIP Conference Proceedings 2052, 020009 (2018); <https://doi.org/10.1063/1.5083727> .
- [P190] (Contributo in volume, capitolo o saggio) G. Chitarin, G. Serianni, V. Toigo, M. Bigi, M. Boldrin, S. Dal Bello, L. Grandò, A. Luchetta, D. Marcuzzi, R. Pasqualotto, N. Pomaro, P. Zaccaria, L. Zanutto, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, M. Barbisan, M. Battistella, M. Brombin, R. Cavazzana, M. Dalla Palma, M. Dan, A. De Lorenzi, R. Delogu, M. De Muri, S. Denizeau, M. Fadone, F. Fellin, L. Ferbel, A. Ferro, E. Gaio, G. Gambetta, F. Gasparini, F. Gnesotto, P. Jain, A. Maistrello, G. Manduchi, S. Manfrin, G. Marchiori, N. Marconato, M. Moresco, T. Patton, M. Pavei,

- S. Peruzzo, N. Pilan, A. Pimazzoni, R. Piovan, C. Poggi, M. Recchia, A. Rizzolo, G. Rostagni, E. Sartori, M. Siragusa, P. Sonato, S. Spagnolo, M. Spolaore, C. Taliercio, P. Tinti, M. Ugoletti, M. Valente, A. Zamengo, B. Zaniol, M. Zaupa, C. Baltador, M. Cavenago, D. Boilson, C. Rotti, P. Veltri, T. Bonicelli, A. Chakraborty, H. Patel, N. P. Singh, U. Fantz, B. Heinemann, and W. Kraus, "**Start of SPIDER operation towards ITER neutral beams**", AIP Conference Proceedings 2052, 030001 (2018); <https://doi.org/10.1063/1.5083729> .
- [P189] (Contributo in volume, capitolo o saggio) G. Serianni, P. Agostinetti, V. Antoni, C. Baltador, M. Barbisan, M. Bigi, M. Brombin, M. Cavenago, G. Chitarin, M. Dalla Palma, R. Delogu, F. Fellin, N. Marconato, D. Marcuzzi, R. Pasqualotto, E. Sartori, V. Toigo, P. Veltri, P. Zaccaria, B. Zaniol, and M. Zaupa, "**Numerical investigation of the early operational phase of the negative ion test facility SPIDER: Beam features**", AIP Conference Proceedings 2011, 060012 (2018); <https://doi.org/10.1063/1.5053341>
- [P188] (Articolo in rivista) D. Aprile, G. Chitarin and N. Marconato, "**NBIImag: A Useful Tool in the Design of Magnetic Systems for the ITER Neutral Beam Injectors**", IEEE Transactions on Plasma Science , 46. 6, 2018, <https://doi.org/10.1109/TPS.2018.2831780> .
- [P187] (Articolo in rivista) Ye. O. Kazakov, J. Ongena, J. C. Wright, ,, JET Contributors and the Alcator C-Mod Team, "**Efficient generation of energetic ions in multi-ion plasmas by radio-frequency heating**", Nature Physics Volume 13 Oct. 2017 <https://doi.org/10.1038/NPHYS4167> .
- [P186] (Contributo in volume, capitolo o saggio) G. Chitarin , P. Agostinetti, D. Aprile, C. Baltador, J. Hiratsuka, M. Ichikawa, A. Kojima , M. Kashiwagi, N. Marconato, E.Sartori, G. Serianni, P. Veltri, "**Benchmark of 3D multi-Beamlet Numerical Models for the Optics Design of Negative Ion Accelerators**", AIP Conference Proceedings 2011, 060009 (2018); <https://doi.org/10.1063/1.5053338> .
- [P185] (Articolo in rivista) V. Antoni, M. Cavenago, G. Chitarin, R. Pasqualotto, E. Sartori, G. Serianni, S. Suweis, P. Veltri "**Particle beams as controllable complex systems: application of the network theory**", Plasma and Fusion Research (PFR) Volume 13, 3405091 (2018), <https://doi.org/10.1585/pfr.13.3405091> .
- [P184] (Contributo in Atti di Convegno) G. Serianni, V. Antoni, M. Cavenago, G. Chitarin, N. A. Ferron, R. Pasqualotto, E. Sartori, S. Suweis, P. Veltri "**Mechanisms behind generation and acceleration of negative ions as an example of complex network**" Fismat 2017, Trieste 1-5 October 2017
- [P183] (Contributo in volume, capitolo o saggio) V. Antoni, F. Taccogna, M. Fadone, G. Chitarin, A. Fassina, G. Serianni, E. Sartori, P. Veltri, M. Cavenago, and P. Minelli "**Alternative concept of an efficient negative ion source for neutral beams**" , AIP Conference Proceedings 2018, 060013 (2018); <https://doi.org/10.1063/1.5053342> .
- [P182] (Book) G. Chitarin, F. Gnesotto, M. Guarnieri, A. Maschio, A. Stella, "**Elettrotecnica 1. Principi**" , Società Editrice Esculapio , Bologna Sept. 2017, ISBN: 9788893850506
- [P181] (Articolo in rivista) Litaudon, X., Abduallev, S., Abhangi, M., Abreu, ... Chitarin G. et al. "**Overview of the JET results in support to ITER** " Nucl. Fusion 57 (2017) 102001, <https://doi.org/10.1088/1741-4326/aa5e28> .
- [P180] (Articolo in rivista) V Toigo, R Piovan, S Dal Bello, E Gaio, A Luchetta, R Pasqualotto , P Zaccaria, M Bigi, G Chitarin, D Marcuzzi, N Pomaro, G Serianni, P Agostinetti , M Agostini, V Antoni, D Aprile, C Baltador, M Barbisan, M Battistella, M Boldrin, M Brombin, M Dalla Palma, A De Lorenzi, R Delogu, M De Muri, F Fellin, A Ferro, A Fiorentin, G Gambetta, F Gnesotto, L Grando, P Jain, A Maistrello, G Manduchi, N Marconato, M Moresco, E Ocello, M Pavei, S Peruzzo, N Pilan, A Pimazzoni, M Recchia, A Rizzolo, G Rostagni, E Sartori, M Siragusa, P Sonato, A Sottocornola, E Spada, S Spagnolo, M Spolaore, C Taliercio, M Valente, P Veltri, A Zamengo, B Zaniol, L Zanutto, M Zaupa, D Boilson, J Graceffa, L Svensson, B Schunke, H Decamps, M Urbani, M Kushwah, J Chareyre, M Singh, T Bonicelli, G Agarici, A Garbuglia, A Masiello, F Paolucci, M Simon, L Bailly-Maitre, E Bragulat, G Gomez, D Gutierrez, G Mico, J-F Moreno, V Pilard, M Kashiwagi, M Hanada, H Tobar, K Watanabe, T Maejima, A Kojima, N Umeda, H Yamanaka, A Chakraborty, U Baruah, C Rotti, H Patel, M V Nagaraju, N P Singh, A Patel, H Dhola, B Raval, U Fantz, B Heinemann, W Kraus, S Hanke, V Hauer, S Ochoa, P Blatchford, B Chuilon, Y Xue, H P L

- De Esch, R Hemsworth, G Croci, G Gorini, M Rebai, A Muraro, M Tardocchi, M Cavenago, M D'Arienzo, S Sandri and ATonti, "**The PRIMA Test Facility: SPIDER and MITICA test-beds for ITER neutral beam injectors**" New J. Phys. 19 (2017) 085004, <https://doi.org/10.1088/1367-2630/aa78e8> .
- [P179] (Articolo in rivista) G. Serianni, P. Agostinetti, M. Agostini, V. Antoni, D. Aprile, C. Baltador, M. Barbisan, M. Brombin, M. Cavenago, G. Chitarin, M. Dalla Palma, R Delogu, F. Fellin, N. Fomesu, N. Marconato, R. Pasqualotto, A. Pimazzoni, E. Sartori, S. Spagnolo, M. Spolaore, P. Veltri, B Zaniol and M. Zaupa, "**Neutralisation and transport of negative ion beams: physics and diagnostics**", New J. Phys. 19 (2017) 045003, <https://doi.org/10.1088/1367-2630/aa64bd> .
- [P178] (Articolo in rivista) M. Zuin, S. Dal Bello, L. Marrelli, M.E. Puiatti, P. Agostinetti, M. Agostini, V. Antoni, F. Auriemma, M. Barbisan, T. Barbui, M. Baruzzo, F. Belli, P. Bettini, M. Bigi, R. Bilel, M. Boldrin, T. Bolzonella, D. Bonfiglio, M. Brombin, A. Buffa, C. Bustreo, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, D. Cester, L. Chacon, G. Chitarin, W.A. Cooper, L. Cordaro, M. Dalla Palma, S. Deambrosis, R. Delogu, A. De Lorenzi, G. De Masi, J.Q. Dong, D.F. Escande, A. Fassina, F. Felici, A. Ferro, C. Finotti, P. Franz, L. Frassinetti, E. Gaio, F. Ghezzi, L. Giudicotti, F. Gnesotto, M. Gobbin, W.A. Gonzalez, L. Grando, S.C. Guo, J.D. Hanson, S.P. Hirshman, P. Innocente, J.L. Jackson, S. Kiyama, M. Komm, O. Kudlacek, L. Laguardia, C. Li, S.F. Liu, Y.Q. Liu, D. López-Bruna, R. Lorenzini, T.C. Luce, A. Luchetta, A. Maistrello, G. Manduchi, D.K. Mansfield, G. Marchiori, N. Marconato, D. Marcuzzi, P. Martin, E. Martines, S. Martini, G. Mazzitelli, O. McCormack, E. Miorin, B. Momo, M. Moresco, Y. Narushima²⁸, M. Okabayashi, R. Paccagnella, N. Patel, M. Pavei, S. Peruzzo, N. Pilan, L. Pigatto, R. Piovan, P. Piovesan, C. Piron, L. Piron, I. Predebon, C. Rea, M. Recchia, A. Rizzolo, G. Rostagni, C Ruset, L. Sajò-Bohus, H. Sakakita, R. Sanchez, J.S. Sarff, F. Sattin, P. Scarin, O. Schmitz, W. Schneider, M. Siragusa, P. Sonato, E. Spada, S. Spagnolo, M. Spolaore, D.A. Spong⁴, G. Spizzo, L. Stevanato, Y. Suzuki, C. Taliercio, D. Terranova, G. Urso, M. Valente, M. Valisa, M. Vallar, M. Veranda, N. Vianello, F. Villone, P. Vincenzi, N. Visonà, R.B. White, P. Xanthopoulos, X.Y. Xu, V. Yanovskiy, A. Zamengo, P. Zanca, B. Zaniol, L. Zanutto, Y. Zhang and E. Zilli, "**Overview of the RFX-mod Fusion Science Activity**", Nucl. Fusion 57 (2017) 102012 (14pp), <https://doi.org/10.1088/1741-4326/aa61cc> .
- [P177] (Articolo in rivista) V. Toigo, S. Dal Bello, E. Gaio, A. Luchetta, R. Pasqualotto¹, P. Zaccaria, M. Bigi, G. Chitarin, D. Marcuzzi, N. Pomaro, G. Serianni, P. Agostinetti¹, M. Agostini, V. Antoni, D. Aprile, C. Baltador, M. Barbisan, M. Battistella, M. Boldrin, M. Brombin, M. Dalla Palma, A. De Lorenzi, R. Delogu, M. De Muri, F. Fellin, A. Ferro, G. Gambetta, L. Grando, P. Jain, A. Maistrello, G. Manduchi, N. Marconato, M. Pavei, S. Peruzzo, N. Pilan, A. Pimazzoni, R. Piovan, M. Recchia, A. Rizzolo, E. Sartori, M. Siragusa, E. Spada, S. Spagnolo, M. Spolaore, C. Taliercio, M. Valente, P. Veltri, A. Zamengo, B. Zaniol, L. Zanutto, M. Zaupa, D. Boilson, J. Graceffa, L. Svensson, B. Schunke, H. Decamps, M. Urbani, M. Kushwah, J. Chareyre, M. Singh, T. Bonicelli, G. Agarici, A. Garbuglia, A. Masiello, F. Paolucci, M. Simon, L. Bailly-Maitre, E. Bragulat, G. Gomez, D. Gutierrez, G. Mico, J.-F. Moreno, V. Pilard, A. Chakraborty, U. Baruah, C. Rotti, H. Patel, M.V. Nagaraju, N.P. Singh, A. Patel, H. Dholā, B. Raval, U. Fantz, M. Fröschle, B. Heinemann, W. Kraus, R. Nocentini, R. Riedl, L. Schiesko, C. Wimmer, D. Wunderlich, M. Cavenago, G. Croci, G. Gorini, M. Rebai, A. Muraro, M. Tardocchi and R. Hemsworth "**The ITER Neutral Beam Test Facility toward SPIDER operation**", Nucl. Fusion 57 (2017) 086027, <https://doi.org/10.1088/1741-4326/aa7490> .
- [P176] (Contributo in volume, capitolo o saggio) G. Chitarin, "**Interaction between molten alloys and electro-magnetic fields: levitation and cold crucible**", in "Liquid Metals and Alloys: From Structure to Industrial Applications", L. Arnberg, F. Bonollo and R. Montanari editors, Materials Science Forum, Vol. 884, Trans Tech Publications, ISBN: 978-3-03835-640-0, (2016) <https://10.4028/www.scientific.net/MSF.884.53>
- [P175] (Articolo in rivista) Toigo, V.; Piovan, R.; Dal Bello, S.; Gaio, E.; Luchetta, A.; Pasqualotto, R.; Zaccaria, P.; Bigi, M.; Chitarin, G.; Marcuzzi, D.; Pomaro, N.; Serianni, G.; Agostinetti, P.; Agostini, M.; Antoni, V.; Aprile, D.; Baltador, C.; Barbisan, M.; Battistella, M.; Boldrin, M.; Brombin, M.; Dalla Palma, M.; De Lorenzi, A.; Delogu, R.; De Muri, M.; Fellin, F.; Ferro, A.; Finotti, C.; Fiorentin, A.; Gambetta, G.; Gnesotto, F.; Grando, L.; Jain, P.; Maistrello, A.; Manduchi, G.; Marconato, N.; Moresco, M.; Ocello, E.; Pavei, M.; Peruzzo, S.; Pilan, N.; Pimazzoni, A.; Recchia, M.; Rizzolo, A.; Rostagni, G.; Sartori, E.; Siragusa, M.; Sonato, P.; Sottocornola, A.; Spada, E.; Spagnolo, S.; Spolaore, M.; Taliercio, C.; Valente, M.; Veltri, P.; Zamengo, A.; Zaniol, B.; Zanutto, L.; Zaupa, M.;

- Boilson, D.; Graceffa, J.; Svensson, L.; Schunke, B.; Decamps, H.; Urbani, M.; Kushwah, M.; Chareyre, J.; Singh, M.; Bonicelli, T.; Agarici, G.; Masiello, A.; Paolucci, F.; Simon, M.; Bailly-Maitre, L.; Bragulat, E.; Gomez, G.; Gutierrez, D.; Mico, G.; Moreno, J.-F.; Pilard, V.; Kashiwagi, M.; Hanada, M.; Tobari, H.; Watanabe, K.; Maeshima, T.; Kojima, A.; Umeda, N.; Yamanaka, H.; Chakraborty, A.; Baruah, U.; Rotti, C.; Patel, H.; Nagaraju, M.V.; Singh, N.P.; Patel, A.; Dhola, H.; Raval, B.; Fantz, U.; Heinemann, B.; Kraus, W.; Hanke, S.; Hauer, V.; Ochoa, S.; Blatchford, P.; Chuilon, B.; Xue, Y.; De Esch, H.P.L.; Hemsworth, R.; Croci, G.; Gorini, G.; Rebai, M.; Muraro, A.; Cavenago, M.; D'Arienzo, M.; Sandri, S.. **"A substantial step forward in the realization of the ITER HNB system: The ITER NBI Test Facility"**, Fusion Engineering and Design 123 (2017) 32–39 <https://doi.org/10.1016/j.fusengdes.2016.11.007> .
- [P174] (Articolo in rivista) D. Aprile, P. Agostinetti, C. Baltador, J. Hiratsuka, M. Ichikawa, M. Kashiwagi, A. Kojima, N. Marconato, E. Sartori, G. Serianni, P. Veltri, M. Yoshida, G. Chitarin **"Realization of a magnetically compensated extraction grid for performance improvement of next generation NBI"** Fusion Engineering and Design 123 (2017) 400–405 <https://doi.org/10.1016/j.fusengdes.2017.03.122> .
- [P173] (Articolo in rivista) G. Chitarin, D. Aprile, M. Brombin, N. Marconato, L. Svensson, **"Feasibility study of a flux-gate magnetic field sensor suitable for ITER Neutral Beam Injectors"** Fusion Engineering and Design 123 (2017) 412–416 <https://doi.org/10.1016/j.fusengdes.2017.03.080> 2-s2.0-85015763192
- [P172] (Contributo in volume, capitolo o saggio) G. Chitarin, A. Kojima, P. Agostinetti, D. Aprile, C. Baltador, J. Hiratsuka, M. Ichikawa, N. Marconato, E. Sartori, G. Serianni, P. Veltri, M. Yoshida, M. Kashiwagi, M. Hanada, V. Antoni **"Experimental validation of an innovative deflection compensation method in a multi-beamlet negative-ion accelerator"**, AIP Conference Proceedings 1869, 030026 (2017); <https://doi.org/10.1063/1.4995746> .
- [P171] (Contributo in volume, capitolo o saggio) M. Ichikawa, A. Kojima, G. Chitarin, P. Agostinetti, D. Aprile, C. Baltador, M. Barbisan, R. Delogu, J. Hiratsuka, N. Marconato, R. Nishikiori, A. Pimazzoni, E. Sartori, G. Serianni, H. Tobari, N. Umeda, P. Veltri, K. Watanabe, M. Yoshida, V. Antoni and M. Kashiwagi **"Determination of the meniscus shape of a negative ion beam from an experimentally obtained beam profile"** , AIP Conference Proceedings 1869, 030024 (2017); <https://doi.org/10.1063/1.4995744> .
- [P170] (Articolo in rivista) R S Hemsworth, D Boilson, P Blatchford, M Dalla Palma, G Chitarin, H P L de Esch, F Geli, M Dremel, J Graceffa, D Marcuzzi, G Serianni, D Shah, M Singh, M Urbani and P Zaccaria, **"Overview of the design of the ITER heating neutral beam injectors"**, New J. Phys. 19 (2017) 025005, <https://doi.org/10.1088/1367-2630/19/2/025005> .
- [P169] (Articolo in rivista) G. Serianni, P. Agostinetti, V. Antoni, D. Aprile, C. Baltador, M. Cavenago, G. Chitarin, N. Marconato, D. Marcuzzi, E. Sartori, P. Sonato, V. Toigo, P. Veltri And P. Zaccaria **"The Full-Size Source and Injector Prototypes for ITER Neutral Beams"** Plasma and Fusion Research, Volume 11, 2402119 (2016), <https://doi.org/10.1585/pfr.11.2402119> .
- [P168] (Articolo in rivista) P. Veltri, E. Sartori, P. Agostinetti, D. Aprile, M. Brombin, G. Chitarin, N. Fomesu, K. Ikeda, M. Kasaki, H. Nakano, A. Pimazzoni, K. Tsumori and G. Serianni **"Ion beam transport: modelling and experimental measurements on a large negative ion source in view of the ITER heating neutral beam"** Nucl. Fusion 57 (2017) 016025, <https://doi.org/10.1088/0029-5515/57/1/016025> .
- [P167] (Articolo in rivista) Singh, M.J., Boilson, D., Hemsworth, R., Chareyre, J., Decamps, H., Delmas, E., Geli, F., Graceffa, J., Schunke, B., Svensson, L., Shah, D., El Ouazzani, A., Urbani, M., De Esch, H.P.L., Antoni, V., Chitarin, G., Serianni, G., Marcuzzi, D., Toigo, V., Zaccaria, P., Fantz, U., Franzen, P., Heinemann, B., Kraus, W., Kashiwagi, M., Hanada, M., Tobari, H., Kuriyama, M., Masiello, A., Bonicelli, T. **"Heating Neutral Beams for ITER: Present Status"** , IEEE Transactions On Plasma Science, Volume: 44 Issue: 9, Pages: 1496-1505 (2016) <https://doi.org/10.1109/TPS.2016.2586598> .
- [P166] (Contributo in Atti di Convegno) Singh, M.J., Boilson, D., Hemsworth, R., Chareyre, J., Decamps, H., Delmas, E., Geli, F., Graceffa, J., Schunke, B., Svensson, L., Shah, D., El Ouazzani, A., Urbani, M., De Esch, H.P.L., Antoni, V., Chitarin, G., Serianni, G., Marcuzzi, D., Toigo, V., Zaccaria, P., Fantz, U., Franzen, P., Heinemann, B., Kraus, W., Kashiwagi, M., Hanada, M., Tobari, H.,

- Kuriyama, M., Masiello, A., Bonicelli, T. "**Heating Neutral Beams for ITER: Present Status**", 26th IEEE Symposium on Fusion Engineering, SOFE 2015; Austin; United States; 31 May - 4 June 2015; (2016) <https://doi.org/10.1109/SOFE.2015.7482422>.
- [P165] (Articolo in rivista) P. Agostinetti, G. Chitarin, G. Gambetta, D. Marcuzzi "**Two key improvements to enhance the thermo-mechanic performances of accelerator grids for neutral beam injectors**", Fusion Engineering and Design 109-111 (2016) <https://doi.org/10.1016/j.fusengdes.2016.01.056>.
- [P164] (Articolo in rivista) C. Baltador, P. Veltri, P. Agostinetti, G. Chitarin, and G. Serianni "**Multi-beamlet investigation of the deflection compensation methods of SPIDER beamlets**", Review of Scientific Instruments 87, 02B141 (2016); <https://doi.org/10.1063/1.4935228>.
- [P163] (Articolo in rivista) N. Pilan, V. Antoni, A. De Lorenzi, G. Chitarin, P. Veltri and E. Sartori "**A new deflection technique applied to an existing scheme of electrostatic accelerator for high energy neutral beam injection in fusion reactor devices**", Rev. Sci. Instrum. 87, 02B325 (2016); <https://doi.org/10.1063/1.4939857>.
- [P162] (Articolo in rivista) F. Romanelli, on behalf of JET Contributors "**Overview of the JET results**", Nucl. Fusion 55 (2015) 104001; <https://doi.org/10.1088/0029-5515/55/10/10>.
- [P161] (Articolo in rivista) P. Agostinetti, D. Aprile, V. Antoni, M. Cavenago, G. Chitarin H.P.L. de Esch, A. De Lorenzi, N. Fomesu, G. Gambetta, R.S. Hemsworth, M. Kashiwagi, N. Marconato, D. Marcuzzi, N. Pilan, E. Sartori, G. Serianni, M. Singh, P. Sonato, E. Spada, V. Toigo, P. Veltri and P. Zaccaria "**Detailed design optimization of the MITICA negative ion accelerator in view of the ITER NBI**", Nucl. Fusion 56 (2016) 016015; <https://doi.org/10.1088/0029-5515/56/1/016015>.
- [P160] (Articolo in rivista) G. Serianni, P. Agostinetti, V. Antoni, C. Baltador, M. Cavenago, G. Chitarin, N. Marconato, R. Pasqualotto, E. Sartori, V. Toigo, and P. Veltri. "**Numerical simulations of the first operational conditions of the negative ion test facility SPIDER**", Review of Scientific Instruments 87, 02B927 (2016); <https://doi.org/10.1063/1.4935209>.
- [P159] (Articolo in rivista) D. Marcuzzi, P. Agostinetti, M. Dalla Palma, M. De Muri, G. Chitarin, G. Gambetta, N. Marconato, R. Pasqualotto, M. Pavei, N. Pilan, A. Rizzolo, G. Serianni, V. Toigo, L. Trevisan, M. Visentin, P. Zaccaria, M. Zaupa, D. Boilson, J. Graceffa, R. S. Hemsworth, C. H. Choi, M. Marti, K. Roux, M. J. Singh, A. Masiello, M. Froeschle, B. Heinemann, R. Nocentini, R. Riedl, H. Tobar, H. P. L. de Esch, and V. N. Muvvala "**Final design of the beam source for the MITICA injector**", Review of Scientific Instruments 87, 02B309 (2016); <https://doi.org/10.1063/1.4932615>.
- [P158] (Articolo in rivista) Puiatti, M.E.; Dal Bello, S.; Marrelli, L.; Martin, P.; Agostinetti, P.; Agostini, M.; Antoni, V.; Auriemma, F.; Barbisan, M.; Barbui, T.; Baruzzo, M.; Battistella, M.; Belli, F.; Bettini, P.; Bigi, M.; Bilel, R.; Boldrin, M.; Bolzonella, T.; Bonfiglio, D.; Brombin, M.; Buffa, A.; Canton, A.; Cappello, S.; Carraro, L.; Cavazzana, R.; Cester, D.; Chacon, L.; Chapman, B.E.; Chitarin, G.; Ciaccio, G.; Cooper, W.A.; Dalla Palma, M.; Deambrosis, S.; Delogu, R.; De Lorenzi, A.; De Masi, G.; Dong, J.Q.; Escande, D.F.; Esposito, B.; Fassina, A.; Fellin, F.; Ferro, A.; Finotti, C.; Franz, P.; Frassinetti, L.; Furno Palumbo, M.; Gaio, E.; Ghezzi, F.; Giudicotti, L.; Gnesotto, F.; Gobbin, M.; Gonzales, W.A.; Grando, L.; Guo, S.C.; Hanson, J.D.; Hirshman, S.P.; Innocente, P.; Jackson, J.L.; Kiyama, S.; Komm, M.; Laguardia, L.; Li, C.; Liu, S.F.; Liu, Y.Q.; Lorenzini, R.; Luce, T.C.; Luchetta, A.; Maistrello, A.; Manduchi, G.; Mansfield, D.K.; Marchiori, G.; Marconato, N.; Marocco, D.; Marcuzzi, D.; Martines, E.; Martini, S.; Matsunaga, G.; Mazzitelli, G.; Miorin, E.; Momo, B.; Moresco, M.; Okabayashi, M.; Olofsson, E.; Paccagnella, R.; Patel, N.; Pavei, M.; Peruzzo, S.; Pilan, N.; Pigatto, L.; Piovan, R.; Piovesan, P.; Piron, C.; Piron, L.; Predebon, I.; Rea, C.; Recchia, M.; Rigato, V.; Rizzolo, A.; Roquemore, A.L.; Rostagni, G.; Ruset, C.; Ruzzon, A.; Sajò-Bohus, L.; Sakakita, H.; Sanchez, R.; Sarff, J.S.; Sartori, E.; Sattin, F.; Scaggion, A.; Scarin, P.; Schmitz, O.; Sonato, P.; Spada, E.; Spagnolo, S.; Spolaore, M.; Spong, D.A.; Spizzo, G.; Stevanato, L.; Takechi, M.; Taliercio, C.; Terranova, D.; Trevisan, G.L.; Urso, G.; Valente, M.; Valisa, M.; Veranda, M.; Vianello, N.; Viesti, G.; Villone, F.; Vincenzi, P.; Visona', N.; Wang, Z.R.; White, R.B.; Xanthopoulos, P.; Xu, X.Y.; Yanovskiy, V.; Zamengo, A.; Zanca, P.; Zaniol, B.; Zanutto, L.; Zilli, E.; Zuin, M. "**Overview of the RFX-mod contribution to the international Fusion Science Program**" Nucl. Fusion 55 (2015) 104012; <https://doi.org/10.1088/0029-5515/55/10/104012>.

- [P157] (Articolo in rivista) G. Chitarin, P. Agostinetti, D. Aprile, N. Marconato, D. Marcuzzi, G. Serianni, P. Veltri "**Off-normal and failure condition analysis of the MITICA negative-ion accelerator**", Review of Scientific Instruments 87, 02B311 (2016); <https://doi.org/10.1063/1.4933184>.
- [P156] (Contributo in Atti di Convegno) G. Chitarin, G. Timelli, R. Losco, F. Bonollo "**Development and operational experience on Cold Crucible Levitation Melting apparatus for light metal casting**" Proc. of international conference on Heating by Electromagnetic Sources HES-13, Padova, May 2013, ISBN 978-88-89884-25-6
- [P155] (Articolo in rivista) H.P.L. de Esch, M. Kashiwagi, M. Taniguchi, T. Inoue, G. Serianni, P. Agostinetti, G. Chitarin, N. Marconato, E. Sartori, P. Sonato, P. Veltri, N. Pilan, D. Aprile, N. Fonnesu, V. Antoni, M.J. Singh, R.S. Hemsworth and M. Cavenago "**Physics design of the HNB accelerator for ITER**" Nucl. Fusion 55 9 (2015) 096001, <https://doi.org/10.1088/0029-5515/55/9/096001>.
- [P154] (Articolo in rivista) N. Marconato, P. Agostinetti, G. Chitarin, "**Magnetic and thermo-structural design optimization of the Plasma Grid for the MITICA neutral beam injector**" Fusion Eng. Des. 96-97 (2015), <https://doi.org/10.1016/j.fusengdes.2015.04.008>.
- [P153] (Articolo in rivista) N. Pilan, D. Marcuzzi, A. Rizzolo, L. Grando, G. Gambetta, S. Dalla Rosa, V. Kraemer, T. Quirnbach, G. Chitarin, R. Gobbo, G. Pesavento, A. De Lorenzi, L. Lotto, R. Rizzieri, M. Fincato, L. Romanato, L. Trevisan, V. Cervaro, L. Franchin, "**Electrical and structural R&D activities on high voltage dc solid insulator in vacuum**" Fusion Eng. Des. 96-97 (2015), <https://10.1016/j.fusengdes.2015.05.057>.
- [P152] (Articolo in rivista) Toigo, V.; Boilson, D.; Bonicelli, T.; Piovan, R.; Hanada, M.; Chakraborty, A.; Agarici, G.; Antoni, V.; Baruah, U.; Bigi, M.; Chitarin, G.; Dal Bello, S.; Decamps, H.; Graceffa, J.; Kashiwagi, M.; Hemsworth, R.; Luchetta, A.; Marcuzzi, D.; Paolucci, F.; Pasqualotto, R.; Patel, H.; Pomaro, N.; Rotti, C.; Serianni, G.; Simon, M.; Singh, M.; Singh, N. P.; Svensson, L.; Tobar, H.; Watanabe, K.; Zaccaria, P.; Agostinetti, P.; Agostini, M.; Andreani, R.; Aprile, Daniele; Bandyopadhyay, M.; Barbisan, Marco; Battistella, M.; Bettini, Paolo; Blatchford, P.; Boldrin, M.; Bonomo, F.; Bragulat, E.; Brombin, M.; Cavenago, M.; Chuilon, B.; Coniglio, A.; Croci, G.; Dalla Palma, M.; D'Arienzo, M.; Dave, R.; De Esch, H. P. L.; De Lorenzi, A.; De Muri, M.; Delogu, R.; Dhola, H.; Fantz, U.; Fellin, F.; Fellin, L.; Ferro, A.; Fiorentin, A.; Fonnesu, N.; Franzen, P.; Fröschle, M.; Gaio, E.; Gambetta, Giulio; Gomez, G.; Gnesotto, Francesco; Gorini, G.; Grando, L.; Gupta, V.; Gutierrez, D.; Hanke, S.; Hardie, C.; Heinemann, B.; Kojima, A.; Kraus, W.; Maeshima, T.; Maistrello, A.; Manduchi, G.; Marconato, N.; Mico, G.; Moreno, J. F.; Moresco, M.; Muraro, A.; Muvvala, V.; Nocentini, R.; Ocello, E.; Ochoa, S.; Parmar, D.; Patel, A.; Pavei, G.; Peruzzo, S.; Pilan, N.; Pilard, V.; Recchia, M.; Riedl, R.; Rizzolo, A.; Roopesh, G.; Rostagni, G.; Sandri, S.; Sartori, Emanuele; Sonato, Piergiorgio; Sottocornola, A.; Spagnolo, S.; Spolaore, M.; Taliercio, C.; Tardocchi, M.; Thakkar, A.; Umeda, N.; Valente, M.; Veltri, P.; Yadav, A.; Yamanaka, H.; Zamengo, A.; Zaniol, B.; Zanutto, L.; Zaupa, Matteo, "**Progress in the realization of the PRIMA neutral beam test facility**" Nuclear Fusion, 55 (2015) 083025; <https://doi.org/10.1088/0029-5515/55/8/083025>.
- [P151] (**Brevetto**) G. Chitarin "**Magnet Grid - Grille Magnétique**", International Patent number WO2014191890 <http://patentscope.wipo.int/search/en/detail.jsf?docId=WO2014191890>. Vedi anche file allegato alla domanda (patentWIPO_PCT_WrittenOpinionMagnetGrid.pdf).
- [P150] (Contributo in volume, capitolo o saggio) G. Serianni, F. Bonomo, M. Brombin, V. Cervaro, G. Chitarin, S. Cristofaro, R. Delogu, M. De Muri, D. Fasolo, N. Fonnesu, L. Franchin, P. Franzen, R. Ghiraldelli, F. Molon, A. Muraro, R. Pasqualotto, B. Ruf, L. Schiesko, M. Tollin, and P. Veltri "**Negative ion beam characterisation in BATMAN by mini-STRIKE: Improved design and new measurements**" AIP Conference Proceedings 1655, 060007 (2015); <https://doi.org/10.1063/1.4916476>.
- [P149] (Contributo in volume, capitolo o saggio) P. Veltri, M. Cavenago, G. Chitarin, D. Marcuzzi, E. Sartori, G. Serianni, and P. Sonato "**Electrostatic steering and beamlet aiming in large neutral beam injectors**" AIP Conference Proceedings 1655, 050005 (2015); <https://doi.org/10.1063/1.4916462>.

- [P148] (Contributo in volume, capitolo o saggio) G. Chitarin, P. Agostinetti, D. Aprile, N. Marconato and P. Veltri "**Improvements of the Magnetic Field Design for SPIDER and MITICA Negative Ion Beam Sources**" AIP Conf. Proc. 1655, 040008 (2015); <https://doi.org/10.1063/1.4916450>.
- [P147] (Contributo in Atti di Convegno) S.Martini, P.Innocente, M. Agostini, ..., G. Chitarin, ... et al "**First results on Reversed Field Pinch plasmas with new magnetic boundary in the RFX-mod experiment**" 32nd EPS Conference on Plasma Physics, Tarragona, 27 June - 1 July 2005, ECA Vol. 29C, P-5.054 (2005).
- [P146] (Contributo in Atti di Convegno) Daniele Aprile, Giuseppe Chitarin, Nicolò Marconato "**An efficient method for magnetic field and force calculation in complex permanent magnet and current arrangements**", Proc of the 6th biennial IEEE conference on Electromagnetic Field Computation, May 2014, Annecy, France.
- [P145] (Articolo in rivista) P. Agostinetti, G. Chitarin, N. Marconato, D. Marcuzzi, and A. Rizzolo, "**Manufacturing and Testing of Grid Prototypes for the ITER Neutral Beam Injectors**", IEEE Trans. on Plasma Science, Vol. 42, Issue 3, Part: 1, Pag. 628-632 (2014), <https://doi.org/10.1109/TPS.2013.2296743>.
- [P144] (Articolo in rivista) Sartori, E.; Veltri, P.; Serianni, G.; Dalla Palma, M.; Chitarin, G.; Sonato, P., "**Modeling of Beam Transport, Secondary Emission and Interactions with Beam-Line Components in the ITER Neutral Beam Injector**", IEEE Trans. on Plasma Science, Vol. 42, Issue 3, Part: 1 (2014) Pag. 633- 639, <https://doi.org/10.1109/TPS.2014.2304682>.
- [P143] (Articolo in rivista) Pilan, N.; Chitarin, G.; De Lorenzi, A.; Serianni, G. "**Magnetic Field Effect on Voltage Holding in the MITICA Electrostatic Accelerator**", IEEE Transactions on Plasma Science, Vol. 42, Issue: 4 (2014), pag. 1012-1020, <https://doi.org/10.1109/TPS.2014.2307923>.
- [P142] (Articolo in rivista) P. Veltri, P. Agostinetti, M. Cavenago, G. Chitarin, N. Marconato, E. Sartori, and G. Serianni: "**Compensation of Beamlet Deflections and Focusing Methods in the Electrostatic Accelerator of MITICA Neutral Beam Injector**", IEEE Trans. on Plasma Science, Vol. 42, No. 4 (2014), <https://doi.org/10.1109/TPS.2014.2308275>.
- [P141] (Articolo in rivista) G. Serianni, M. De Muri, A. Muraro, P. Veltri, F. Bonomo, G. Chitarin, R. Pasqualotto, M. Pavei, A. Rizzolo, M. Valente, P. Franzen, B. Ruf and L. Schiesko: "**First negative ion beam measurement by the Short-Time Retractable Instrumented Kalorimeter Experiment (STRIKE)**", Review of Scientific Instruments 85, 02A736 (2014) <https://doi.org/10.1063/1.4861391>.
- [P140] (Articolo in rivista) V. Antoni, P. Agostinetti, D. Aprile, M. Cavenago, G. Chitarin, N. Fomesu, N. Marconato, N. Pilan, E. Sartori, G. Serianni, and P. Veltri: "**Physics design of the injector source for ITER neutral beam injector**", Review of Scientific Instruments 85, 02B128 (2014), <https://doi.org/10.1063/1.4857235>.
- [P139] (Articolo in rivista) G. Chitarin, P. Agostinetti, D. Aprile, N. Marconato, P. Veltri: "**Cancellation of the ion deflection due to electron-suppression magnetic field in a negative-ion accelerator**" Review of Scientific Instruments, Vol. 85, Issue 2, 02B317 (2014), <https://doi.org/10.1063/1.4826581>.
- [P138] (Contributo in Atti di Convegno) G. Chitarin, N. Marconato, P. Agostinetti, D. Aprile, P. Bettini, L. Grando, S. Peruzzo, G. Serianni, P. Sonato, P. Veltri: "**Control of the magnetic field configuration in the MITICA Neutral beam injector**", Proc. of IEEE 25th Symposium on Fusion Engineering (SOFE), 10-14 June 2013, San Francisco, CA, USA, ISBN: 978-1-4799-0169-2, <https://doi.org/10.1109/SOFE.2013.6635454>.
- [P137] (Contributo in Atti di Convegno) E. Sartori, P. Veltri, G. Serianni, M. Dalla Palma, G. Chitarin, P. Sonato: "**Beam transport and interactions with beam-line components in MITICA injector**", Proc. of IEEE 25th Symposium on Fusion Engineering (SOFE), 10-14 June 2013, San Francisco, CA, USA, ISBN: 978-1-4799-0169-2, <https://doi.org/10.1109/SOFE.2013.6635402>.
- [P136] (Contributo in Atti di Convegno) P. Veltri, P. Agostinetti, M. Cavenago, G. Chitarin, N. Marconato, E. Sartori, G. Serianni: "**Optimization of beam optics and strategies for focusing**

- the multi-beamlet accelerator of the MITICA injector**" Proc. of IEEE 25th Symposium on Fusion Engineering (SOFE), 10-14 June 2013, San Francisco, CA, USA, ISBN: 978-1-4799-0169-2, <https://doi.org/10.1109/SOFE.2013.6635356> .
- [P135] (Contributo in Atti di Convegno) N. Pilan, G. Chitarin, A. De Lorenzi, G. Serianni: "**Effect of magnetic field on voltage holding in the MITICA electrostatic accelerator**", Proc. of IEEE 25th Symposium on Fusion Engineering (SOFE), 10-14 June 2013, San Francisco, CA, USA, ISBN: 978-1-4799-0169-2, <https://doi.org/10.1109/SOFE.2013.6635332> .
- [P134] (Contributo in Atti di Convegno) P. Agostinetti, G. Chitarin, N. Marconato, D. Marcuzzi, A. Rizzolo: "**Construction and testing of grid prototypes for the ITER neutral beam injectors**" , Proc. of IEEE 25th Symposium on Fusion Engineering (SOFE), 10-14 June 2013, San Francisco, CA, USA, ISBN: 978-1-4799-0169-2, <https://doi.org/10.1109/SOFE.2013.6635350> .
- [P133] (Articolo in rivista) P. Martin, M.E. Puiatti, P. Agostinetti, M. Agostini, J.A. Alonso, V. Antoni, L. Apolloni, F. Auriemma, F. Avino, A. Barbalace, M. Barbisan, T. Barbui, S. Barison, M. Barp, M. Baruzzo, P. Bettini, M. Bigi, R. Bilel, M. Boldrin, T. Bolzonella, D. Bonfiglio, F. Bonomo, M. Brombin, A. Buffa, C. Bustreo, A. Canton, S. Cappello, D. Carralero, L. Carraro, R. Cavazzana, L. Chacon, B. Chapman, G. Chitarin, et al.: "**Overview of the RFX-mod fusion science programme**", Nucl. Fusion 53 pag. 104018 (2013), <https://doi.org/10.1088/0029-5515/53/10/104018> .
- [P132] (Contributo in Atti di Convegno) P. Sonato, D. Boilson, T. Bonicelli, A.K. Chakraborty, C. Day, P. Franzen, G. Gorini, T. Inoue, J. Milnes, T. Minea, H.P.L. De Esch, P. Agostinetti, M. Agostini, V. Antoni, M. Barbisan, P. Bettini, M. Bigi, M. Boldrin, M. Brombin, M. Cavenago, G. Chitarin, et al. "**Design of the MITICA neutral beam injector: from physics analysis to engineering design**" 24th IAEA Fusion Energy Conference October 8–13, 2012, San Diego, USA, <https://www-naweb.iaea.org/napc/physics/FEC/FEC2012/index.htm> .
- [P131] (Articolo in rivista) G. Chitarin, P. Agostinetti, H.P.L. de Esch, D. Marcuzzi, N. Marconato, E. Sartori, G. Serianni, P. Sonato, P. Veltri and P. Zaccaria "**Optimization of the electrostatic and magnetic field configuration in the MITICA accelerator**" Fusion Engineering and Design 88, 6-8 (2013), pag. 507–511, <https://doi.org/10.1016/j.fusengdes.2013.02.052> .
- [P130] (Articolo in rivista) S. Peruzzo, S. Arshad, M. Brombin, G. Chitarin, W. Gonzalez, L. Grando, M. Portales, A. Rizzolo, G. Vayakis, L. Vermeeren "**R&D on ITER in-vessel magnetic sensors**" Fusion Eng. Des. (2013), <https://doi.org/10.1016/j.fusengdes.2013.02.018> .
- [P129] (Contributo in volume, capitolo o saggio) G. Chitarin, N. Marconato, P. Agostinetti, G. Serianni, P. Sonato "**Flexible Magnetic Design of the MITICA Plasma Source and Accelerator**" AIP Conf. Proc. 1515, 217 (2013); <https://doi.org/10.1063/1.4792788> .
- [P128] (Contributo in volume, capitolo o saggio) P. Agostinetti, G. Chitarin, P. Franzen, B. Ruf, G. Serianni and P. Veltri "**Benchmark of the SLACCAD code against data from the MANITU testbed at IPP**" AIP Conf. Proc. 1515, 522 (2013); <https://doi.org/10.1063/1.4792824> .
- [P127] (Contributo in volume, capitolo o saggio) H.P.L. de Esch, M. Kashiwagi, T. Inoue, G. Serianni, P. Agostinetti, G. Chitarin, N. Marconato, E. Sartori, P. Sonato, P. Veltri and R.S. Hemsworth "**Status of Physics Design of the HNB Accelerator for ITER**" AIP Conf. Proc. 1515, 512 (2013); <https://doi.org/10.1063/1.4792823> .
- [P126] (Contributo in volume, capitolo o saggio) P. Sonato, V. Antoni, M. Bigi, G. Chitarin, A. Luchetta, D. Marcuzzi, R. Pasqualotto, N. Pomaro, G. Serianni, V. Toigo, P. Zaccaria "**Status of PRIMA, the Test Facility for ITER Neutral Beam Injectors**" AIP Conf. Proc. 1515, 549 (2013); <https://doi.org/10.1063/1.4792827> .
- [P125] (Articolo in rivista) G. Timelli, G. Chitarin, A. Tiziani, F. Bonollo "**Design and realization of an experimental cold crucible levitation melting system for light alloys**" METALLURGIA ITALIANA, vol. 106, 2012 p. 19- 27 , ISSN: 0026-0843
- [P124] (Articolo in rivista) L.R. Grisham, P. Agostinetti, G. Barrera, P. Blatchford, D. Boilson, J. Chareyre, G. Chitarin, H.P.L. de Esch, A. De Lorenzi, P. Franzen, U. Fantz, M. Gagliardi, R.S. Hemsworth, M. Kashiwagi, D. King, A. Krylov, M. Kuriyama, N. Marconato, D. Marcuzzi, M. Roccella, L. Rios, A. Panasenkov, N. Pilan, M. Pavei, A. Rizzolo, E. Sartori, G. Serianni, P. Sonato,

- V. Pilard, M. Tanaka, H. Tobari, P. Veltri, P. Zaccaria " **Recent improvements to the ITER neutral beam system design**", Fusion Eng. Des. Vol. 87, Issue 11, Nov. 2012, Pages 1805–1815 , <https://doi.org/10.1016/j.fusengdes.2012.08.001> .
- [P123] (Contributo in volume, capitolo o saggio) M. Kuriyama, D. Boilson, R. Hemsworth, ... G. Chitarin et al. "**Status of the 1 MeV Accelerator Design for ITER NBI**" (AIP Conf. Proc. 1390, Melville, New York, 2011, pp 545- 554) <https://doi.org/10.1063/1.3637426> , ISBN: 978-0-7354-0955-2 .
- [P122] (Contributo in volume, capitolo o saggio) P. Veltri, P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin et al. "**Sensitivity Analysis of the Off-Normal Conditions of the SPIDER Accelerator**", (AIP Conf. Proc. 1390, Melville, New York, 2011, pp 594-603) <https://doi.org/10.1063/1.3637431> , ISBN: 978-0-7354-0955-2.
- [P121] (Contributo in volume, capitolo o saggio) P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin, N. Pilan et al. "**Physics and engineering studies on the MITICA accelerator: comparison among possible design solutions**", (AIP Conf. Proc. 1390, Melville, New York, 2011, pp 574-583); <https://doi.org/10.1063/1.3637429> , ISBN: 978-0-7354-0955-2.
- [P120] (Articolo in rivista) G. Chitarin, P. Agostinetti, N. Marconato, D. Marcuzzi, E. Sartori, G. Serianni, P. Sonato: "**Concepts for the magnetic design of the MITICA neutral beam test facility ion accelerator**" , Review of Scientific Instruments, Volume: 82 Issue: 2, pag. 02B107, 2012, <https://doi.org/10.1063/1.3669801> .
- [P119] (Articolo in rivista) P. Agostinetti, G. Chitarin, D. Marcuzzi, M. Pavei, N. Pilan, A. Rizzolo, G. Serianni, P. Sonato, L. Trevisan, P. Veltri : "**Detail Design of the Electron Dump for the SPIDER Beam Source**", IEEE Transactions on Plasma Science, Volume: 40 Issue: 3, Pages: 629-634, 2012, <https://doi.org/10.1109/TPS.2011.2179947> .
- [P118] (Articolo in rivista) Martin P; Adamek J; Agostinetti P; Agostini M; Alfier A; Angioni C; Antoni V; Apolloni L; Auriemma F; Barana O; Barison S; Baruzzo M; Bettini P; Boldrin M; Bolzonella T; Bonfiglio D; Bonomo F; Boozer AH; Brombin M; Brotankova J; Buffa A; Canton A; Cappello S; Carraro L; Cavazzana R; Cavinato M; Chacon L; G. Chitarin et al. "**Overview of the RFX fusion science program**" (Nuclear Fusion 51 , 2011 094023) <https://doi.org/10.1088/0029-5515/51/9/09402> .
- [P117] (Articolo in rivista) P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin, N. Marconato, D. Marcuzzi, N. Pilan, G. Serianni, P. Sonato, P. Veltri and P. Zaccaria "**Physics and engineering design of the accelerator and electron dump for SPIDER**" , Nuclear Fusion 51 (2011) 063004 (16pp), <https://doi.org/10.1088/0029-5515/51/6/063004> .
- [P116] (Articolo in rivista) A. Masiello, G. Agarici, T. Bonicelli, M. Simon, J. Alonso, M. Bigi, D. Boilson, G. Chitarin, C. Day, P. Franzen, S. Hanke, B. Heinemann, R. Hemsworth, A. Luchetta, D. Marcuzzi, J. Milnes, T. Minea, R. Pasqualotto, N. Pomaro, G. Serianni, W. Rigato, P. Sonato, V. Toigo, F.Villecroze, C. Waldon, P. Zaccaria : "**The European contribution to the development of the ITER NB injector**" (Fusion Engineering and Design 86, 2011 pag. 860–863) <https://doi.org/10.1016/j.fusengdes.2011.03.035> .
- [P115] (Contributo in Atti di Convegno) G. Serianni, P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin, G. Fubiani, E. Gazza, N. Marconato, N. Pilan, P. Veltri : "**Secondary particles in the acceleration stage of high current, high voltage neutral beam injectors: the case of the injectors of the thermonuclear fusion experiment ITER**" (Proc. of International Particle Accelerator Conference, May 2010, Kyoto, Japan) ISBN: 978-92-9083-352-9 .
- [P114] (Articolo in rivista) G. Vayakis, L. Bertalot, A. Encheva, Ch. Walker, B. Brichard, M.S. Cheon, G. Chitarin, E. Hodgson, Ch. Ingesson, M. Ishikawa, T. Kondoh, H. Meister, Ph. Moreau, S. Peruzzo, S. Pak, G. Pérez-Pichel, R. Reichle, D. Testa, M. Toussaint, L.Vermeeren and V. Vershkov: "**Nuclear technology aspects of ITER vessel-mounted diagnostics**" (J. Nucl. Mater. Vol. 407, pag. 780-786, 2011) <https://doi.org/10.1016/j.jnucmat.2011.01.081> .
- [P113] (Contributo in volume, capitolo o saggio) P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin, H. Nakano, N. Pilan, G. Serianni, P. Veltri, Y. Takeiri and K. Tsumori: "**Modeling activities on the negative-ion-based Neutral Beam Injectors of the Large Helical Device**" (AIP Conf.

- Proc. 1390, Melville, New York, 2011, pp 526-535) <https://doi.org/10.1063/1.3637424>
ISBN: 978-0-7354-0955-2.
- [P112] (Contributo in volume, capitolo o saggio) G. Chitarin, P. Agostinetti, A. Gallo, N. Marconato, H. Nakano, G. Serianni, Y. Takeiri, K. Tsumori: **"Experimental Mapping and Benchmarking of Magnetic Field Codes on the LHD Ion Accelerator"** (AIP Conf. Proc. 1390, Melville New York, 2011, pp 381-390); <https://doi.org/10.1063/1.3637409>, ISBN: 978-0-7354-0955-2.
- [P111] (Articolo in rivista) N. Marconato, G. Chitarin, P. Agostinetti, N. Pilan, G. Serianni: **"Simulation, Code Benchmarking and Optimization of the Magnetic Field Configuration in a Negative Ion Accelerator"** (Fusion Engineering and Design 86, 2011, pag. 925-928) <https://doi.org/10.1016/j.fusengdes.2011.01.052>.
- [P110] (Contributo in Atti di Convegno) A. Gallo, G. Chitarin, RS Delogu, S. Peruzzo, G. Vayakis, **"ITER in-vessel magnetic sensors prototyping and tests"**, 26th Symposium on Fusion Technology, SOFT2010, Sept. 2010 Porto, Portugal.
- [P109] (Contributo in Volume, capitolo o saggio) Bagatin, M.; Bettini, P; Chitarin, G.; Magistris, M. Desideri, D.; Formisano, A.; Fresa, R.; Martino, R.; Martone, R.; Pironti, A.; Stella, A.; Trevisan, F.; Zabeo, L., **"Plasma identification in fusion devices, MURST national research project 1999-2000 - Models and methods for plasma control in fusion devices"** - Final report, ISBN: 9788871785677, Consorzio RFX - Associazione EURATOM-ENEA sulla Fusione, Padova, 2001
- [P108] (Contributo in Atti di Convegno) G. Serianni, P. Agostinetti, V. Antoni, M. Cavenago, G. Chitarin, N. Marconato, N. Pilan, P. Sonato, P. Veltri: **"Compensation of ion deflection and disposal of electrons in the ion source test facility of ITER neutral beam injectors"** (Proc. of 36th EPS Conference on Plasma Physics, June 29 - July 3, 2009, Sofia, Bulgaria, ECA Vol.33E, P-4.171, 2009).
- [P107] (Contributo in Atti di Convegno) Ph. Moreau, I. Bolshakova, B. Brichard, G. Chitarin, R. Delogu, I. Duran, A. Encheva, Y. Fournier, A. Gallo, A. Le-Luyer, J.B. Lister, Ph. Malard, J.M. Moret, P. Pastor, S. Peruzzo, J. Romero, D. Testa, M. Toussaint, G. Vayakis, R. Vila: **"Development of a Magnetic Diagnostic Suitable for the ITER Radiation Environment "** (Proc. of International Conference on Advancements in Nuclear Instrumentation, Measurement Methods and their Applications, ANIMMA 2009, Marseille June 2009) ISBN: 978-1-4244-5207-1 <https://doi.org/10.1109/ANIMMA.2009.5503812>.
- [P106] (Articolo in rivista) S. Peruzzo, G. Chitarin, R. Delogu, A. Gallo: **"Design proposal of connection system for ITER in-vessel magnetic sensors"** (Fusion Engineering and Design vol. 85 (2010) 1707-1710) <https://doi.org/10.1016/j.fusengdes.2010.05.012>.
- [P105] (Articolo in rivista) Lorenzini R; Agostini M; Alfier A; Antoni V; Apolloni L; Auriemma F; Barana O; Baruzzo M; Bettini P; Bonfiglio D; Bolzonella T; Bonomo F; Brombin M; Buffa A; Canton A; Cappello S; Carraro L; Cavazzana R; Chitarin G. ... et al. **"Improvement of the magnetic configuration in the reversed field pinch through successive bifurcations"** Phys. of Plasmas 16, 056109 (2009); <https://doi.org/10.1063/1.3082821>.
- [P104] (Articolo in rivista) F. Romanelli, R. Kamendjea on behalf of JET-EFDA Contributors : **"Overview of JET results"** (Nuclear Fusion 49, 2009 104006) <https://doi.org/10.1088/0029-5515/49/10/104006>.
- [P103] (Articolo in rivista) D. Testa, M. Toussaint, R. Chavan, J. Guterl, J. B. Lister, J.-M. Moret, A. Perez, F. Sanchez, B. Schaller, G. Tonetti, A. Encheva, G. Vayakis, C. Walker, Y. Fournier, T. Maeder, A. Le-Luyer, Ph. Moreau, G. Chitarin, E. Alessi, R. S. Delogu, A. Gallo, N. Marconato, S. Peruzzo, M. Preindl, H. Carfantan, E. Hodgson, J. Romero, R. Vila, B. Brichard, and L. Vermeeren, **"The magnetic diagnostics set for ITER"**, IEEE Trans. On Plasma Science, Vol. 38, No. 3, Mar. 2010) <https://doi.org/10.1109/TPS.2009.2037226>.
- [P102] (Contributo in Atti di Convegno) P. Agostinetti, V. Antoni, M. Cavenago, Chitarin G., N. Marconato, M. Pavei, N. Pilan, G. Serianni, P. Sonato. **"Optimisation of the magnetic field configuration for the negative ion source of ITER neutral beam injectors"**, Proceedings of International TOKI conference 18, Toki Gifu, Japan. 9-12 Dec 2008.

- [P101] (Articolo in rivista) P. Martin; L. Apolloni; M. E. Puiatti; J. Adamek; M. Agostini; A. Alfier; S.V. Annibaldi; V. Antoni; F. Auriemma; O. Barana; M. Baruzzo; P. Bettini; T. Bolzonella; D. Bonfiglio; F. Bonomo; M. Brombin; J. Brotankova; A. Buffa; P. Buratti; A. Canton; S. Cappello; L. Carraro; R. Cavazzana; M. Cavinato; B.E. Chapman; G. Chitarin et al: "**Overview of RFX-mod results**" (Nuclear Fusion 49 (2009) 104019) <https://doi.org/10.1088/0029-5515/49/10/104019>.
- [P100] (Articolo in rivista) M Valisa; T Bolzonella; P Buratti; L Carraro; R Cavazzana; S Dal Bello; Martin P.; R Pasqualotto; J S Sarff; M Spolaore; P Zanca; L Zanotto; M Agostini; A Alfier; V Antoni; L Apolloni; F Auriemma; O Barana; M Baruzzo; P Bettini; D Bonfiglio; F Bonomo; M Brombin; A Buffa; A Canton; S Cappello; M Cavinato; G Chitarin et al.: "**High current regimes in RFX-mod**" (Plasma Phys. Control. Fusion 50, 2008, 124031) <https://doi.org/10.1088/0741-3335/50/12/124031>.
- [P099] (Articolo in rivista) R. Chavan, G. Chitarin, R. Delogu A. Encheva, E. Hodgson, C. Ingesson, A. Le-Luyer, J Lister, P Moreau, J.M. Moret, S. Peruzzo, D. Testa, Y Gribov, G. Vayakis, R. Vila "**The magnetic diagnostics set for ITER**" (Fusion Engineering and Design 84 , 2009, pag. 295–299) <https://doi.org/10.1016/j.fusengdes.2008.12.103>.
- [P098] (Articolo in rivista) G. Chitarin, R. Delogu, A. Gallo, S. Peruzzo. "**Technology developments for ITER in-Vessel equilibrium magnetic sensors**" (Fusion Engineering and Design 84, 2009 pag. 593–598) <https://doi.org/10.1016/j.fusengdes.2008.11.022>.
- [P097] (Articolo in rivista) E. Alessi, M. Cavinato, G. Chitarin "**Development of a Reconstruction Procedure for the Halo Current Distribution**" (Review of Scientific Instruments, Vol. 79, No. 10, 10F332 , 2008) <https://doi.org/10.1063/1.2978193>.
- [P096] (Articolo in rivista) G. Chitarin, L. Grando, S. Peruzzo, C. Taccon: "**Design developments for the ITER in-Vessel equilibrium pick-up Coils and Halo current Sensors**" (Fusion Engineering and Design 82 (2007) pag. 1341–1347) <https://doi.org/10.1016/j.fusengdes.2007.07.045>.
- [P095] (Contributo in Atti di Convegno) S. Peruzzo, G. Chitarin, S. Dal Bello, R. S. Delogu, L. Lotto, A. Sottocornola, C. Taccon: "**Development and Testing of in-Vessel Equilibrium Pick-up Coils for ITER**" (Proc of Workshop on Burning Plasma Diagnostics, F. Orsitto, G. Gorini, E. Sindoni, M. Tardocchi, American Institute of Physics 2008 pag. 442-445) ISBN: 978-0-7354-0507-3.
- [P094] (Articolo in rivista) L. Marrelli; P. Zanca; M. Valisa; G. Marchiori; A. Alfier; F. Bonomo; M. Gobbin; P. Piovesan; D. Terranova; M. Agostini; C. Alessi; V. Antoni; L. Apolloni; F. Auriemma; P. Bettini; T. Bolzonella; D. Bonfiglio; M. Brombin; A. Buffa; A. Canton; S. Cappello; L. Carraro; R. Cavazzana; M. Cavinato; G. Chitarin .. et al: "**Magnetic self organization, MHD active control and confinement in RFX-mod**" (Plasma Phys. Control. Fusion 49 (2007) B359–B369) <https://doi.org/10.1088/0741-3335/49/12B/S33>.
- [P093] (Articolo in rivista) S. Martini; M. Agostini; C. Alessi; A. Alfier; V. Antoni; L. Apolloni; F. Auriemma; P. Bettini; T. Bolzonella; D. Bonfiglio; F. Bonomo; M. Brombin; A. Buffa; A. Canton; S. Cappello; L. Carraro; R. Cavazzana; M. Cavinato; G. Chitarin... et al: "**Active MHD control at high currents in RFX-mod**" (Nuclear Fusion 47 (2007) pag. 783–791) <https://doi.org/10.1088/0029-5515/47/8/008>.
- [P092] (Contributo in Atti di Convegno) R. Paccagnella, D. Terranova, P. Zanca and the RFX team "**Modeling and Interpretation of MHD active control Experiments in RFX-Mod**" (Proc of 21st IAEA Fusion Energy conference, 16-21 Oct 2006, Chendu, China).
- [P091] (Articolo in rivista) V. Coccoresse, G. Artaserse, A. Quercia G. Chitarin A. Murari S. Gerasimov and JET EFDA Contributors "**Assessment of new ex-vessel magnetic measurements in JET**" (Review of Scientific Instruments 77, 10E317 2006) <https://doi.org/10.1063/1.2221913>.
- [P090] (Articolo in rivista) S. Ortolani and the RFX team: "**Active MHD control experiments in RFX-mod**" (Plasma Phys. Control. Fusion 48 (2006) B371–B381).
- [P089] (Articolo in rivista) P. Martin, L. Marrelli, G. Spizzo, ... the RFX team ... et al.: "**Overview of quasi-single helicity experiments in reversed field pinches**" (Nuclear Fusion 43 (2003) pag. 1855–1862), <https://doi.org/10.1088/0029-5515/43/12/028>.

- [P088] (Contributo in Atti di Convegno) P. Campostrini, G. Chitarin, N. Pomaro, F. Trevisan **"Magnetic measurements in the RFX Fusion Experiment"** (Proc. of the IEEE International Magnetics Conference, San Antonio Texas, USA, Apr. 1995, IEEE conference Proceedings, catalog number 95CH35792) ISBN: 0-7803-2605-9 .
- [P087] (Contributo in Atti di Convegno) A. Luchetta, M. Cavinato, E. Gaio, ... G. Chitarin ... et al.: **"Recent results from Real-Time active Control of MHD modes in RFX-mod"**, (Proc. of 21st IAEA Fusion Energy conference, 16-21 Oct 2006, Chendu China) ISBN: 9789201009074 .
- [P086] (Contributo in Atti di Convegno) S. Martini, M. Agostini, A. Alessi, ... G. Chitarin ... et al.: **"Overview of RFX-mod results with Active MHD control"** (Proc. of 21st IAEA Fusion Energy conference, 16-21 Oct 2006, Chendu China) ISBN: 9789201009074 .
- [P085] (Contributo in Atti di Convegno) M. Valisa, L. Frassinetti, R. Paccagnella, ... G. Chitarin, ... et al.: **"Edge transport properties of RFX-mod approaching the Greenwald density limit"** (Proc. of 21st IAEA Fusion Energy conference, 16-21 Oct 2006, Chendu China) ISBN: 9789201009074
- [P084] (Articolo in rivista) P. Innocente, A. Alfieri, L. Carraro, ...and the RFX team: **"Transport and Confinement studies in RFX-mod Reversed Field Pinch experiment"** (Nuclear Fusion 47 (2007) pag. 1092–1100) <https://doi.org/10.1088/0029-5515/47/9/004> .
- [P083] (Articolo in rivista) V. Coccoresse, G. Artaserse, G. Chitarin, T. Edlington, S. Gerasimov S. Peruzzo, A. Quercia, C. Sowden: **"Manufacturing and Commissioning of the new Ex-Vessel Magnetic Diagnostics System for JET"** (Fusion Engineering and Design 82 (2007) pag. 1348–1358) <https://doi.org/10.1016/j.fusengdes.2007.03.009> .
- [P082] (Contributo in Atti di Convegno) M. Cavinato, G. Chitarin, L. Grando, A.Luchetta, G. Manduchi, G. Marchiori, A.Soppelsa, C. Taccon, C.Taliercio: **"Characterization of the RFX-mod Saddle Coil System and design of the regulator for the control of MHD modes"** (Proc. of the 21st IEEE/NPSS SOFE conference, Sept. 26-29 2005, Knoxville TN, USA) ISBN: 0-4244-0150-X, <https://doi.org/10.1109/FUSION.2005.252981> .
- [P081] (Contributo in Atti di Convegno) G. Chitarin, S. Peruzzo, N. Pomaro: **"Susceptibility of NMR instrumentation to ELF fields"**, (Proc. of the EMC Europe Workshop, Sept. 19-21, 2005, Rome).
- [P080] (Contributo in Atti di Convegno) F. Gnesotto, A. Luchetta, G. Marchiori, ...G. Chitarin,... et al.: **"RFX: new tools for real-time MHD control"**, (Proc. of 20th IAEA Fusion Energy Conference, Nov. 1-6, 2004, Vilamoura, Portugal) ISBN:9789201004055 .
- [P079] (Contributo in Atti di Convegno) M. Valisa, F. Auriemma, F. Canton, ...G. Chitarin,... et al.: **"The Greenwald density limit in the Reversed Field Pinch"**, (Proc. of 20th IAEA Fusion Energy Conference, Nov. 1-6, 2004, Vilamoura, Portugal) ISBN:9789201004055 .
- [P078] (Contributo in Atti di Convegno) V. Antoni, R. Cavazzana, E. Martines, ...G. Chitarin,... et al.: **"Turbulent transport and plasma flow in the Reversed Field Pinch"**, (Proc. of 20th IAEA Fusion Energy Conference, Nov. 1-6, 2004, Vilamoura, Portugal) ISBN:9789201004055 .
- [P077] (Articolo in rivista) M. E. Puiatti, S. Cappello, R. Lorenzini, ...G. Chitarin,... et al.: **"Analysis and modelling of the magnetic and plasma profiles during PPCD experiments in RFX"**, (Nuclear Fusion. Oct. 2003; vol. 43 (10) pag. 1057-1065) <https://doi.org/10.1088/0029-5515/43/10/006> .
- [P076] (Articolo in rivista) J. Paméla, Emilia R. Solano, and JET EFDA Contributors: **"Overview of JET results"** (Nuclear Fusion 43 (2003) 1540–1554) <https://doi.org/10.1088/0029-5515/43/12/002> .
- [P075] (Articolo in rivista) G. Chitarin, F. Basso, V. Coccoresse, S. Peruzzo, N. Pomaro, T. Edlington, C. Sowden, S. Cramp, K. Fullard and JET-EFDA contributors: **"Design of Ex-Vessel Magnetic Probes for JET-EP"**, (Fusion Engineering and Design 74 pag. 727-731 Nov. 2005) <https://doi.org/10.1016/j.fusengdes.2005.06.036> .
- [P074] (Articolo in rivista) V. Coccoresse, R. Albanese, H. Altmann, F. Basso, A. Cenedese, G. Chitarin, S. Cramp, F. DegliAgostini, T. Edlington, K. Fullard, S. Gerasimov, L. Grando, S. Huntley, N. Lam, A. Loving, D. Marcuzzi, C. Marren, E. Mc Carron, S. Peruzzo, N. Pomaro, V. Riccardo, F. Sartori,

- E. Solano, C. Sowden, J. Tidmarsh and JET-EFDA Contributors: "**Design of the new magnetic sensors for JET**", (Review of Scientific Instruments, Vol. 75,, no. 10 (2004), pag. 4311-4313) <https://doi.org/10.1063/1.1789621> .
- [P073] (Contributo in Atti di Convegno) P. Sonato, G. Chitarin, P. Zaccaria, W. Baker, S. Dal Bello, L. Grando, G. Marchiori, D. Marcuzzi, A. Masiello, S. Peruzzo, N. Pomaro, J. Amend, J. Coughlin: "**Construction and assembly status of new components for the modified RFX machine**" (Proc. of the 20th IEEE/NPSS Symposium on Fusion Engineering (SOFE) Oct. 2003 San Diego, CA USA) ISBN: 0-7803-7908-X, <https://doi.org/10.1109/FUSION.2003.1426639> .
- [P072] (Contributo in Atti di Convegno) G. Chitarin, R. Lazzarin, M. Noro, E. Settimo "**Development of a 2.2 kW alkaline Fuel Cell compact power source**" (Proc of the 5th HYdrogen POver THEoretical and Engineering Solutions International Symposium (HYPOTHESIS), 7-10 Sept. 2003, Porto Conte Italy) ISBN: 9788886281904 .
- [P071] (Articolo in rivista) F. Milani, S. Peruzzo, G. Chitarin, E. Gaio, L. Grando, N. Pomaro, V. Toigo, "**The upgrade of the RFX fast protection system in view of the new operating scenarios and machine modification**", (Fusion Engineering and Design 66-68 (2003) pag. 1069-1073) [https://doi.org/10.1016/S0920-3796\(03\)00279-5](https://doi.org/10.1016/S0920-3796(03)00279-5) .
- [P070] (Articolo in rivista) G. Chitarin, S. Dal Bello, L. Grando, S. Peruzzo, "**The design of 192 saddle coils for RFX**", (Fusion Engineering and Design 66-68 (2003) pag. 1055-1059) [https://doi.org/10.1016/S0920-3796\(03\)00273-4](https://doi.org/10.1016/S0920-3796(03)00273-4) .
- [P069] (Articolo in rivista) P. Sonato, G. Chitarin, P. Zaccaria, F. Gnesotto, S. Ortolani, A. Buffa, M. Bagatin, W.R. Baker, S. Dal Bello, P. Fiorentin, L. Grando, G. Marchiori, D. Marcuzzi, A. Masiello, S. Peruzzo, N. Pomaro, G. Serianni, "**Machine modification for active MHD control in RFX**", (Fusion Engineering and Design 66-68 (2003) pag. 161-168) [https://doi.org/10.1016/S0920-3796\(03\)00177-7](https://doi.org/10.1016/S0920-3796(03)00177-7) .
- [P068] (Monografia o trattato scientifico) R. Albanese, G. Ambrosino, M. Ariola, M. Bagatin, F. Bellina, P. Bettini, C.A. Borghi, G. Chitarin, E. Coccorese, A. Formisano, R. Fresa, M. De Magistris, F. Gnesotto, M. Guarnieri, G. Marchiori, R. Martone, A. Pironti, P.L. Ribani, G. Rubinacci, A. Stella, F. Trevisan, F. Villone "**Models and Methods for Plasma Control in Fusion Devices, plasma current, position and shape identification and control** ", (MURST National Research Project Final Report 1998-2000, Padova, Feb 2001) .
- [P067] (Articolo in rivista) G. Chitarin, L. Grando, G. Marchiori, A. Masiello, S. Peruzzo: "**Evaluation of the electrodynamic forces on the passive components of the new RFX load assembly**" (Fusion Engineering and Design n. 63-64 (2002), pag. 467-473) [https://doi.org/10.1016/S0920-3796\(02\)00185-0](https://doi.org/10.1016/S0920-3796(02)00185-0) .
- [P066] (Articolo in rivista) R. Albanese, G. Ambrosino, M. Ariola, M. Bagatin, F. Bellina, P. Bettini, C.A. Borghi, G. Chitarin, E. Coccorese, A. Formisano, R. Fresa, M. De Magistris, F. Gnesotto, M. Guarnieri, G. Marchiori, R. Martone, A. Pironti, P.L. Ribani, G. Rubinacci, A. Stella, F. Trevisan, F. Villone "**An integrated approach to the control of magnetically confined plasmas**" (Fusion Engineering and Design 56-57 (2001) pag. 705-709) [https://doi.org/10.1016/S0920-3796\(01\)00403-3](https://doi.org/10.1016/S0920-3796(01)00403-3) .
- [P065] (Articolo in rivista) G. Chitarin, A. Masiello, S. Peruzzo, R. Piovan, P. Sonato, G. Zollino "**The electromagnetic system for the active control of the non-axisymmetric helical deformation in RFX**", (Plasma Physics and Controlled Fusion, 43 (2001) pag. 543-558) <https://doi.org/10.1088/0741-3335/43/4/311> .
- [P064] (Articolo in rivista) D. Desideri, L. Zabeo, M. Bagatin, G. Chitarin, and R. Piovan: "**A fast code using non-magnetic measurements for RFX current and magnetic field profile reconstruction**" (IEEE Trans. on Magnetics, vol. 38, n. 2 (2002), pag. 1229-1232) <https://doi.org/10.1109/20.996314> .
- [P063] (Articolo in rivista) P. Martin, S. Martini, V. Antoni, L. Apolloni, M. Bagatin, W. Baker, O. Barana, R. Bartiromo, P. Bettini, A. Boboc, T. Bolzonella, A. Buffa, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, G. Chitarin... et al. : "**New Insights into MHD Dynamics of Magnetically Confined Plasmas from Experiments in RFX**" (Nuclear Fusion (2002) n. 3 vol. 42, pag. 247-257.) <https://doi.org/10.1088/0029-5515/42/3/304> .

- [P062] (Articolo in rivista) V. Antoni, ... G. Chitarin,... et al.: "**Transport Mechanisms and Enhanced Confinement Studies in RFX**", (Nuclear Fusion (2001) n. 4 vol. 41, pag. 431-436.) <https://doi.org/10.1088/0029-5515/41/4/008> .
- [P061] (Articolo in rivista) R. Cavazzana, G. Chitarin, L. Grando, G. Marchiori, G. Zollino: "**Electromagnetic analyses for the dynamic control of RFX equilibrium with a new shell**", (Fusion Engineering and Design 58-59 (2001) pag.183-187) [https://doi.org/10.1016/S0920-3796\(01\)00429-X](https://doi.org/10.1016/S0920-3796(01)00429-X) .
- [P060] (Articolo in rivista) R. Cavazzana, G. Chitarin, N. Pomaro: "**Development of preionization systems for RFX**", (Fusion Engineering and Design 56-57 (2001) pag. 843-848) [https://doi.org/10.1016/S0920-3796\(01\)00363-5](https://doi.org/10.1016/S0920-3796(01)00363-5) .
- [P059] (Articolo in rivista) R. Piovan; F. Gnesotto; S. Ortolani; W. Baker; O. Barana; P. Bettini; R. Cavazzana; G. Chitarin... et al.: "**RFX machine and power supply improvements for RFP advanced studies**" (Fusion Engineering and Design 56-57 (2001) pag. 819-824) [https://doi.org/10.1016/S0920-3796\(01\)00413-6](https://doi.org/10.1016/S0920-3796(01)00413-6) .
- [P058] (Articolo in rivista) M. Bagatin, G. Chitarin, D. Desideri, A. Murari, R. Piovan, L. Zabeo: "**Integration of magnetic and non-magnetic measurements for current profile reconstruction in RFX**", (Review of scientific Instruments, Vol. 72,(2001), pag. 426-429) <https://doi.org/10.1063/1.1316753> .
- [P057] (Contributo in Atti di Convegno) M. Bagatin, G. Chitarin, A. Formisano, R. Martone, A. Stella, F. Trevisan: "**Improvements to the Plasma Identification in Fusion Devices via Inclusion of Non Magnetic Measurements**" (Proceedings of the International Conference on Electromagnetics in Advanced Applications (ICEAA 99): September 13 - 17, 1999, Torino, Italy) .
- [P056] (Contributo in Atti di Convegno) P. Bettini, A. Canton, G. Chitarin, E. Gaio, S. Peruzzo, R. Piovan "**Design and realization of the first X-point experiments on the RFX machine**", (Proc. of the 18 SOFE-IEEE/NPSS conference, Albuquerque, New Mexico, 25-29 Oct 1999 pag. 553-6.) ISBN: 0-7803-5829-5, <https://doi.org/10.1109/FUSION.1999.849900> .
- [P055] (Contributo in Atti di Convegno) G. Chitarin, L. Grando, S. Peruzzo "**Design of the Local Control Coils at the equatorial gap of the RFX machine**", (Proc. of the 18 SOFE-IEEE/NPSS conference, Albuquerque, New Mexico, 25 - 29 Oct 1999, pag. 437-40) , <https://doi.org/10.1109/FUSION.1999.849873> .
- [P054] (Contributo in Atti di Convegno) G. Chitarin, A. Masiello, S. Peruzzo, G. Zollino "**Calculation of the Torque applied to a non-axisymmetric toroidal Plasma by means of a driving external Field**" (Proceedings of the Compumag99 conference, Sapporo, Japan, Oct 1999)
- [P053] (Articolo in rivista) R. Bartiromo, T. Bolzonella, A. Buffa, G. Chitarin, S. Martini, A. Masiello, S. Ortolani, R. Piovan, P. Sonato, and G. Zollino "**Tearing Mode Rotation by External Field in a Reversed Field Pinch**" Physical Review Letters, vol. 83, n. 9, Aug. 1999, pag.1779-1782. <https://doi.org/10.1103/PhysRevLett.83.1779> .
- [P052] (Articolo in rivista) R. Bartiromo, A. Buffa, V. Antoni, L. Apolloni, M. Bagatin, W. Baker, F. Bellina, P. Bettini, R. Bilato, T. Bolzonella, A. Canton, S. Cappello, L. Carraro, R. Cavazzana, G. Chitarin, et al.: "**Recent progress in RFP research on the RFX experiment**" (Nuclear Fusion, vol. 39, n. 11Y, Nov. 1999, pag. 1697-1705) <https://doi.org/10.1088/0029-5515/39/11Y/309> .
- [P051] (Contributo in Atti di Convegno) S. Martini, R. Piovan, T. Bolzonella, G. Chitarin, P. Innocente, P. Sonato, D. Terranova, P. Zanca, G. Zollino: "**Studies on magnetic dynamic of RFX**", (Proc. of the 17th IAEA Fusion Energy Conference, Yokohama , Oct. 1998, IAEA Fusion Energy 1998, IAEA Vienna 1998, ISSN:1563-1053) .
- [P050] (Contributo in Atti di Convegno) A. De Lorenzi, P. Bettini, G. Chitarin: "**Large coil modelling for fast transient simulations**" (Proc. of the 20th Symposium on Fusion Technology, Marseille, France, Sept. 1998 Vol , 857-860) .
- [P049] (Contributo in Atti di Convegno) G. Chitarin, R. Piovan, P. Sonato, G. Zollino: "**Control of the Locked Mode Position in RFX**" (Proc. of the 24 EPS conference on Controlled Fusion and Plasma Physics, Prague, Czech Republic, Jun 1998, pag. 766-769).

- [P048] (Articolo in rivista) G. Chitarin: "**Method for the Identification of the Field Configuration in presence of the localized perturbation observed in RFP toroidal plasma devices**" (IEEE Trans on Magnetics, vol. 35, n. 3, May 1999, pag. 1877- 1880) <https://doi.org/10.1109/20.767400> .
- [P047] (Contributo in volume, capitolo o saggio) G. Chitarin, G. Marchiori, G. Zollino: "**Computation and experimental validation of the transfer functions of the local control coil system in RFX**", (Proc. of the 17 IEEE/NPSS Symposium on Fusion Energy, San Diego, California, Oct 1997, IEEE proceedings catalog n. 97CH36131, pag. 572-575) <https://doi.org/10.1109/FUSION.1997.687105> ISBN: 0-7803-4226-7 .
- [P046] (Contributo in Atti di Convegno) P. Campostrini, G. Chitarin, G. Zollino, A.F. Almagri, A.K. Hansen, D.J. Den Hartog, T.W. Lovell, S.C. Prager, J.S. Sarff, M.A. Thomas: "**Mode locking from an applied stationary error field in MST**" (Proc. of the 24 EPS conference on Controlled Fusion and Plasma Physics, Berchtesgaden, Germany, Jun 1997, Europhysics Conferences, European Physics Society, 1997, vol. 21A, pag. 757-760, 1997) .
- [P045] (Contributo in Atti di Convegno) V. Antoni, ... G. Chitarin, et al. , "**Status of the RFX experiment**", (Proc. of the 16th IAEA Fusion Energy Conference, Montreal , Oct. 1996) ISBN: 92-0-100797-3 .
- [P044] (Contributo in Atti di Convegno) G. Chitarin, G. Marchiori, A. Masiello, N. Pomaro, G. Zollino: "**Eddy currents in the RFX shell after short-circuiting one poloidal and one equatorial gap**" (Proc. of the 19th Symposium on Fusion Technology, Lisbon, Portugal, Sept. 1996, pag.775-778, Fusion Technology 1996, Elsevier) ISBN: 0 44482762 5 .
- [P043] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, P. Fiorentin, E. Gaio, G. Marchiori, P. Sonato, V. Toigo, P. Zaccaria, G. Zollino: "**Feasibility analysis of an active local field control at the poloidal gap of RFX**" (Proc. of the 19th Symposium on Fusion Technology, Lisbon, Portugal, Sept. 1996, pag. 771- 774) Fusion Technology 1996, Elsevier ISBN: 0 44482762 5 .
- [P042] (Contributo in Atti di Convegno) T. Bolzonella, G. Chitarin, F. Gnesotto, E. Martines, S. Martini, N. Pomaro, F. Trevisan, Y. Yagi, G. Zollino,: "**Effects of shell gap modifications on RFX plasma behaviour**" (Proc. of the 23 EPS conference on Controlled Fusion and Plasma Physics, Kiev, Ukraina, Jun 1996, pag. 633-636) .
- [P041] (Contributo in Atti di Convegno) A. Buffa and the RFX Team "**Recent results of RFX**" (Proc. of the 23 EPS conference on Controlled Fusion and Plasma Physics, Kiev, Ukraine, Jun 1996, pag. 629-632, Europhysics Conferences, European Physics Society, 1996, vol. 20C) .
- [P040] (Articolo in rivista) F. Bellina, P. Bettini, G. Chitarin, F. Trevisan, A. Stella: "**Plasma Contour Identification using Multipole Series Expansion**" (IEEE Trans.on Magnetics, vol. 32, no. 5, Sept. 1996, pag. 4338-4340) <https://doi.org/10.1109/20.538862> .
- [P039] (Contributo in Atti di Convegno) G. Chitarin and F. Trevisan "**A matrix transformation for the calculation of Mutual Inductances in presence of Passive Conductors**" (Proc. of ISEF95 conference, Tesseloniki, Greece, Sept. 1995, pag. 13-16) .
- [P038] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, M. Guarnieri, N. Pomaro, F. Trevisan: "**Methods for Field Error Analysis in the Magnetic Configuration of RFX**" (Proc. of the 16 SOFE conference, Champaign, Il, USA, Oct 1995, Fusion Engineering 1995, pag. 1103-1106) <https://doi.org/10.1109/FUSION.1995.534419> , ISBN: 9780780329690 .
- [P037] (Articolo in rivista) F. Bellina, G. Chitarin, F. Trevisan: "**Synthesis of the Equilibrium Induction Field with specified Stability Properties in a Toroidal Device**" (IEEE Trans. on Magnetics , vol. 32, n. 3, May 1996, pag. 706-709) <https://doi.org/10.1109/20.497337> .
- [P036] (Contributo in Atti di Convegno) V. Antoni, F. Bellina, T. Bolzonella, G. Chitarin et al. "**Analysis of Wall Locking Phenomena and their consequences in RFX**" (Proc. of the 22 EPS conference on Controlled Fusion and Plasma Physics, Bournemouth, UK, Jun 1995, pag. IV 181 - 184, Europhysics Conferences, European Physics Society, 1995, vol. 19C) .
- [P035] (Articolo in rivista) P.P. Campostrini, G. Chitarin, M. Guarnieri, N. Pomaro, F. Trevisan: "**Methods of Magnetic Measurements in the RFX Fusion Experiment**" (IEEE Trans. on Magnetics, vol. 31, no.6 , Nov. 1995, pag. 3158 - 3160) <https://doi.org/10.1109/20.490313> .

- [P034] (Articolo in rivista) A. Stella, M. Guarnieri, F. Bellina, P.P. Campostrini, G. Chitarin, F. Trevisan, P. Zaccaria, "**The RFX Magnet System**" (Fusion Engineering and Design, vol. 25, no. 4, Jan 1995, pag. 373 - 400) [https://doi.org/10.1016/0920-3796\(94\)00281-B](https://doi.org/10.1016/0920-3796(94)00281-B).
- [P033] (Contributo in Atti di Convegno) P.P. Campostrini, G. Chitarin, N. Pomaro, F. Trevisan: "**Calibration and Operation of the magnetic measurements of RFX**", (Proc. of the 18th Symposium on Fusion Technology, Karlsruhe, Germany, Fusion Technology 1994, Elsevier 1995, pag. 779 - 782) ISBN: 0-444-82220-8.
- [P032] (Contributo in Atti di Convegno) V. Antoni ... G. Chitarin, et al.: "**Comparison of different RFX operation Modes**", (Proc. of the 15th IAEA Conf. on Plasma Physics and Controlled Nuclear Fusion Research, Seville, Spain, Sept. 1994, vol 2, pag. 405-413) ISBN: 9201036957.
- [P031] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, F. Trevisan: "**Effects of poloidal eddy currents in the vacuum vessel of RFX on the local magnetic field measurements**", (Proc. of the Int. Workshop on the Electromagnetic forces and related effects on blankets and other structures surrounding plasma torus, Capri, Italy, Aug. 1994, pag 29-33).
- [P030] (Articolo in rivista) F. Bellina, G. Chitarin, F. Trevisan: "**Validation of a Plasma Countour Identification Code**", (IEEE Trans. on Magnetics, vol. 31, no. 3, May 1995, pag. 2146 - 2149) <https://doi.org/10.1109/20.376471>
- [P029] (Contributo in Atti di Convegno) A. Buffa, F. Gnesotto, V. Antoni, P. Campostrini, S. Cappello, G. Chitarin, A. De Lorenzi, P. Fiorentin, P. Innocente, G. Marchiori, E. Martines, S. Martini, R. Piovan, N. Pomaro, P. Sonato, F. Trevisan "**Magnetic Field Configurations and Locked modes in RFX**" (Proc. of the 21 EPS conference on Controlled Fusion and Plasma Physics, Montpellier, France, Jun 1994, vol I pag. 458 - 461, Europhysics Conferences, European Physics Society, 1994, vol. 18B).
- [P028] (Articolo in rivista) F. Bellina, G. Chitarin, F. Trevisan "**Identification of Plasma contour in a RFP configuration**" (IEEE Trans. Mag. vol 30, no 5 Sept. 1994, pag. 3096 - 3099) <https://doi.org/10.1109/20.312592>.
- [P027] (Contributo in Atti di Convegno) F. Bellina, P. Campostrini, G. Chitarin, M. Guarnieri, A. Stella, F. Trevisan "**Identification of RFX Plasma Shape from the Electromagnetic Probe Signals**" (Proc. of the 15 SOFE conference, Hyannis, Ma, Oct 11-15 1993, pag. 231 - 234) ISBN: 0-7803-1413-1, <https://doi.org/10.1109/FUSION.1993.518321>, ISBN: 0-7803-1412-3.
- [P026] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, M. Guarnieri, A. Stella, F. Trevisan "**Earth faults during RFX initial operation**" (Proc. of the 15 SOFE conference, Hyannis, Ma, Oct 11-15 1993, pag. 345 - 348) ISBN: 0-7803-1413-1, <https://doi.org/10.1109/FUSION.1993.518346>.
- [P025] (Articolo in rivista) F. Bellina, G. Chitarin, M. Guarnieri, F. Trevisan "**Design, Construction and Operation of the Fast Protection System of the Windings of RFX**" (IEEE Trans. on Magnetics, vol. 30, no. 4, Jul 1994, pag. 1851 - 1854), <https://doi.org/10.1109/20.305621>.
- [P024] (Articolo in rivista) F. Bellina, G. Chitarin, G. Zollino "**Investigation on transient Overvoltages in a large winding for a Fusion Device during insulation tests**" (IEEE Trans. on Magnetics, vol. 30, no. 4, Jul 1994, pag. 2558 - 2561) <https://doi.org/10.1109/20.305800>.
- [P023] (Articolo in rivista) Antoni V., Apolloni L., Bagatin M., Baker W., Bassan M., Bellina F., Benfatto I., Bergsäker H., Buffa A., Campostrini P., Cappello S., Carraro L., Casarotto E., Chitarin G, et al.: "**Confinement Studies on RFX**", (Plasma Physics and Controlled Fusion, Vol 35, Suppl. (12)B Dec. 1993). <https://doi.org/10.1088/0741-3335/35/SB/027>.
- [P022] (Contributo in Atti di Convegno) F. Bellina, P. Campostrini, G. Chitarin, M. Guarnieri, A. Stella, F. Trevisan, P. Zaccaria: "**Il sistema magnetico di RFX**", atti della riunione annuale AEI, Ancona 1993.
- [P021] (Contributo in Atti di Convegno) G. Rostagni, G. Malesani, L. Apolloni, W. Baker, F. Bellina, I. Benfatto, P.P. Campostrini, G. Chitarin et al.: "**La macchina RFX per ricerche sulla fusione termonucleare controllata**", atti della riunione annuale AEI, Ancona 1993.
- [P020] (Contributo in Atti di Convegno) The RFX Team: "**First results of the RFX Reversed Field Pinch experiment**", (Proc. of 14th IAEA. Conf. in Plasma Physics and Controlled Nuclear

- Fusion Research - Würzburg, Germany - 30 Sept.-7 Oct. 1992). IAEA Vienna, 1993, ISBN: 92-0-101193-1 .
- [P019] (Contributo in Atti di Convegno) L. Fellin, L. Apolloni, W. Baker, F. Bellina, I. Benfatto, P.P. Campostrini, G. Chitarin, et al.: "**Integration of the RFX Electromagnetic Circuit**", (Proc. of the 17th Symposium on Fusion Technology, Elsevier Science Publishers, Netherlands, 1993, pag. 842-846) ISBN: 978-0444899958 .
- [P018] (Contributo in Atti di Convegno) G. Chitarin M. Guarnieri, G. Orrea, A.Stella, F. Trevisan: "**The Fault Detection System of the windings of RFX**", (Proc. of the 17th Symposium on Fusion Technology, Elsevier Science Publishers, Netherlands, 1993, pag. 822-826) ISBN: 978-0444899958 .
- [P017] (Contributo in Atti di Convegno) P. Kusstatscher, L. Apolloni, W. Baker, F. Bellina, I. Benfatto, P.P. Campostrini, G. Chitarin, et al.: "**Installation, commissioning and start up of RFX**", (Proc. of the 17th Symposium on Fusion Technology, Elsevier Science Publishers, Netherlands, 1993, pag. 717-721) ISBN: 978-0444899958 .
- [P016] (Articolo in rivista) G. Chitarin, A. Stella , F. Trevisan: "**Feasibility Studies on X-Point Magnetic Configurations for RFX Fusion Experiment**", (IEEE Trans. on Magnetics, vol 29 n. 2, Mar. 1993 pag. 2055-2058). <https://doi.org/10.1109/20.250815> .
- [P015] (Articolo in rivista) G. Chitarin, M. Guarnieri, A. Stella: "**An integral formulation for eddy current analyses in axisymmetric configurations**" (IEEE Trans on Magnetics, vol 25,n 5 Sept. 1989, pag. 4330-4341). <https://doi.org/10.1109/20.42600> .
- [P014] (Articolo in rivista) P. Campostrini, G.Chitarin, A.Stella, G. Zollino "**Internal behaviour of large coils subject to transient voltage**" (COMPEL, vol 11, n. 1, Mar 92, pag. 229-232) <https://doi.org/10.1108/eb051794> .
- [P013] (Articolo in rivista) F. Bellina, P. Campostrini, G.Chitarin, A.Stella, F. Trevisan: "**Automated optimal design techniques for inverse electromagnetic problems**" (IEEE Trans. on Magnetics, vol 28, n 2, Mar. 1992, pag. 1549-1552) <https://doi.org/10.1109/20.123993> .
- [P012] (Articolo in rivista) F. Bellina, G. Chitarin, A.Stella: "**Analysis of the breakdown of a poloidal field coil of RFX during acceptance test**" (Fusion Technology, vol. 19, n. 3, May 1991, pag. 1211-1216) ISSN:0748-1896 .
- [P011] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, P. L. Zaccaria: "**RFX Ohmic heating Coils: design of the electric terminals and busbars**" , Proc. of the 11th International Conference on Magnet Technology, Tsukuba, Japan 28 Aug-1 Sep 1989; pag. 896-901, T. Sekiguchi, S. Shimamoto, Elsevier Applied Science, London, UK, ISBN: 1-85166-503-X .
- [P010] (Contributo in Atti di Convegno) P.P. Campostrini, G. Chitarin, M. Guarnieri, A. Stella: "**Fault Protection of the RFX Magnetic System**" , Proc. of the 11th International Conference on Magnet Technology, Tsukuba, Japan 28 Aug.-1 Sept. 1989; pag. 1249-1254, T. Sekiguchi, S. Shimamoto, Elsevier Applied Science, London, UK, ISBN: 1-85166-503-X .
- [P009] (Monografia o trattato scientifico): G. Chitarin, M. Guarnieri, A. Stella: "**An equivalent network approach to the electromagnetic Field diffusion in Axisymmetric configuration**" (IGI report 88/03, Padova Sept. 1988).
- [P008] (Articolo in rivista) G. Chitarin, M. Guarnieri, A. Stella: "**Design development and construction of the RFX Field Shaping Winding**" (Fusion Technology vol. 15, No. 2, Mar 1989; pag 1032-1038) ISSN:0748-1896 .
- [P007] (Contributo in Atti di Convegno) F. Bellina, P.P. Campostrini, G. Chitarin, M. Guarnieri A. Stella: "**Fault Analysis and Protection of the RFX Toroidal Field System**" (Proc. of the 12th Symposium on Fusion Engineering, Monterey Ca, Oct. 1987, pag 315-318, IEEE, Piscataway, NJ, USA, IEEE catalog number 87CH2507-2).
- [P006] (Articolo in rivista) G. Chitarin, M.Guarnieri, A.Stella: "**Current diffusion in the RFX Magnetizing Winding**" (IEEE Trans. on Magnetics, vol 24, n 2, Mar 1988, pag. 1520-1523). <https://doi.org/10.1109/20.11534>

- [P005] (Articolo in rivista) G. Chitarin, M. Guarnieri, A. Stella: "**Transient behaviour of a thick-walled axisymmetric winding: a lumped parameter approach**" (IEEE Trans. on Magnetics, vol 24, n 1, Jan. 1988, pag. 205-208). <https://doi.org/10.1109/20.43890> .
- [P004] (Contributo in Atti di Convegno) F. Bellina, P.P. Campostrini, G. Chitarin, M. Fauri and P.L. Zaccaria: "**Field errors in the RFX magnetic field configuration**" (Proc. of the 14th Symposium on Fusion Technology, Avignon, France, Sept. 1986, pag. 659-664, Fusion Technology 1986 editor A. Torossian , Pergamon Press Oxford, 1986) ISBN:0-08-034935-8 .
- [P003] (Contributo in Atti di Convegno) P. Campostrini, G. Chitarin A. Stella: "**Fault analysis and protection concepts for RFX poloidal magnetic system**". (Proc. of the 11th Symposium on Fusion Engineering, Austin Texas, Nov. 1985, pag. 454-458, IEEE, Piscataway, NJ, USA, IEEE catalog number 85CH2251-2).
- [P002] (Contributo in Atti di Convegno) F. Bellina, G. Chitarin, M. Guarnieri, A.Stella: "**The RFX Field-Shaping winding design**" (Proc. of the 9th International Conference on Magnet Technology, Zürich, Sept. 1985, pag. 383-386) C. Marinucci, P. Weymuth editors, ISBN: 3907998006 .
- [P001] (Contributo in Atti di Convegno) G. Carrara, G. Chitarin: "**The problem of voltage distribution measurement along insulators strings subjected to direct voltage**" (Proc. of the 4th International Symposium on High Voltage Engineering,, 4thISH, Athens, 5-9 Sept. 1983, vol 2, pag. 62.11) .