


Marco Garten

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Websites

PIConGPU Project Page (<http://www.hzdr.de/db/Cms?pOid=31887&pNid=0>)

GitHub Profile (<https://github.com/n01r/>)

ResearchGate Profile (https://www.researchgate.net/profile/Marco_Garten)

Mendeley profile (<https://www.mendeley.com/profiles/marco-garten/>)

Country

Germany

Keywords

Laser-Plasma Based Accelerators, Ionization, HPC, PIConGPU, Many-Core, GPGPU

Other IDs

Scopus Author ID: 57195300318 (<http://www.scopus.com/inward/authorDetails.url?authorID=57195300318&partnerID=MN8TOARS>)

authorID=57195300318&partnerID=MN8TOARS)

Employment (6)

Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2016-07-01 to present | Computational Physicist, PhD Student (Laser Particle Acceleration)

Employment

Source: Marco Garten

Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2016-04-01 to 2016-06-30 | Research Assistant (Laser Particle Acceleration)

Employment

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Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2014-10-08 to 2015-11-12 | Master Student (Computational Radiation Physics)

Employment

Source: Marco Garten

Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2013-07-04 to 2014-10-07 | Undergraduate Research

Assistant (Computational Radiation Physics)

Employment

Source: Marco Garten

Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2013-04-03 to 2013-07-03 | Bachelor Student (Computational Radiation Physics)

Employment

Source: Marco Garten

Helmholtz-Zentrum Dresden-Rossendorf: Dresden, Sachsen

2012-10-01 to 2013-04-03 | Undergraduate Research

Assistant (Computational Radiation Physics)

Employment

Source: Marco Garten

Education and qualifications (2)

Technische Universität Dresden : Dresden, Sachsen

2013-10-01 to 2015-11-12 | Master of Science (Physics)

Education

Source: Marco Garten

Technische Universität Dresden : Dresden, Sachsen

2010-10-01 to 2013-09-03 | Bachelor of Science (Physics)

Education

Source: Marco Garten

Works (8 of 8)

All-optical structuring of laser-driven proton beam profiles*Nature Communications*

2018-12 | journal-article

DOI: 10.1038/s41467-018-07756-z

Source: Crossref**Observation of Ultrafast Solid-Density Plasma Dynamics Using Femtosecond X-Ray Pulses from a Free-Electron Laser***Physical Review X*

2018 | journal-article

DOI: 10.1103/PhysRevX.8.031068

EID: 2-s2.0-85054532550

Source: Scopus - Elsevier**Demonstration of a beam loaded nanocoulomb-class laser wakefield accelerator***Nature Communications*

2017-12 | journal-article

DOI: 10.1038/s41467-017-00592-7

Source: Crossref**Nanometer-scale characterization of laser-driven compression, shocks, and phase transitions, by x-ray scattering using free electron lasers***Physics of Plasmas*

2017-10 | journal-article

DOI: 10.1063/1.5008289

Source: Crossref**First results with the novel petawatt laser acceleration facility in Dresden***Journal of Physics: Conference Series*

2017 | conference-paper

DOI: 10.1088/1742-6596/874/1/012028

EID: 2-s2.0-85026855403

Source: Scopus - Elsevier**Simulations of ultrafast x-ray laser experiments***Proceedings of SPIE - The International Society for Optical Engineering*

2017 | conference-paper

DOI: 10.1117/12.2270552

EID: 2-s2.0-85029166106

Source: Scopus - Elsevier**Modellierung und Validierung von Feldionisation in parallelen Particle-in-Cell-Codes***Technische Universität Dresden, Helmholtz-Zentrum Dresden - Rossendorf*

2015-11-12 | dissertation-thesis

DOI: 10.5281/zenodo.202500

Source: Marco Garten**Comparing field ionization models in simulations of laser-matter interaction***Technische Universität Dresden, Helmholtz-Zentrum Dresden - Rossendorf*

2013-06-10 | dissertation-thesis

DOI: 10.5281/zenodo.192109

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