

Roman Samulyak

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

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citations

933447

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149
citing authors

#	ARTICLE	IF	CITATIONS
1	SPACE: 3D parallel solvers for Vlasov-Maxwell and Vlasov-Poisson equations for relativistic plasmas with atomic transformations. <i>Computer Physics Communications</i> , 2022, 277, 108396.	7.5	3
2	Near-field models and simulations of pellet ablation in tokamaks. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	13
3	Evolution of the self-injection process in long wavelength infrared laser driven LWFA. <i>Physics of Plasmas</i> , 2021, 28, .	1.9	11
4	Lagrangian particle model for 3D simulation of pellets and SPI fragments in tokamaks. <i>Nuclear Fusion</i> , 2021, 61, 046007.	3.5	12
5	Simulation study of CO2 laser-plasma interactions and self-modulated wakefield acceleration. <i>Physics of Plasmas</i> , 2019, 26, 083106.	1.9	14
6	Plasma-Jet-Driven Magneto-Inertial Fusion. <i>Fusion Science and Technology</i> , 2019, 75, 581-598.	1.1	21
7	Simulation study of the influence of experimental variations on the structure and quality of plasma liners. <i>Physics of Plasmas</i> , 2019, 26, 032704.	1.9	6
8	Lagrangian particle method for compressible fluid dynamics. <i>Journal of Computational Physics</i> , 2018, 362, 1-19.	3.8	12
9	Simulation studies of modulator for coherent electron cooling. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	7
10	Simulation of beam-induced plasma in gas-filled rf cavities. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	11
11	Finite Element Model for Brittle Fracture and Fragmentation. <i>Procedia Computer Science</i> , 2016, 80, 245-256.	2.0	5
12	Second Order Upwind Lagrangian Particle Method for Euler Equations. <i>Procedia Computer Science</i> , 2016, 80, 2433-2437.	2.0	0
13	AP-Cloud: Adaptive Particle-in-Cloud method for optimal solutions to Vlasov-Poisson equation. <i>Journal of Computational Physics</i> , 2016, 316, 682-699.	3.8	13
14	On the structure of plasma liners for plasma jet induced magnetoinertial fusion. <i>Physics of Plasmas</i> , 2013, 20, .	1.9	12
15	Influence of atomic processes on the implosion of plasma liners. <i>Physics of Plasmas</i> , 2012, 19, .	1.9	10
16	Spherically symmetric simulation of plasma liner driven magnetoinertial fusion. <i>Physics of Plasmas</i> , 2010, 17, .	1.9	20
17	A magnetohydrodynamic simulation of pellet ablation in the electrostatic approximation. <i>Nuclear Fusion</i> , 2007, 47, 103-118.	3.5	27
18	A numerical algorithm for MHD of free surface flows at low magnetic Reynolds numbers. <i>Journal of Computational Physics</i> , 2007, 226, 1532-1549.	3.8	25

#	ARTICLE	IF	CITATIONS
19	A TSTT integrated FrontTier code and its applications in computational fluid physics. Journal of Physics: Conference Series, 2005, 16, 471-475.	0.4	7