

# Roman Samulyak

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3284091/publications.pdf>

Version: 2024-02-01

19  
papers

229  
citations

933447

10  
h-index

996975

15  
g-index

19  
all docs

19  
docs citations

19  
times ranked

149  
citing authors

#	ARTICLE	IF	CITATIONS
1	A magnetohydrodynamic simulation of pellet ablation in the electrostatic approximation. Nuclear Fusion, 2007, 47, 103-118.	3.5	27
2	A numerical algorithm for MHD of free surface flows at low magnetic Reynolds numbers. Journal of Computational Physics, 2007, 226, 1532-1549.	3.8	25
3	Plasma-Jet-Driven Magneto-Inertial Fusion. Fusion Science and Technology, 2019, 75, 581-598.	1.1	21
4	Spherically symmetric simulation of plasma liner driven magnetoinertial fusion. Physics of Plasmas, 2010, 17, .	1.9	20
5	Simulation study of CO2 laser-plasma interactions and self-modulated wakefield acceleration. Physics of Plasmas, 2019, 26, 083106.	1.9	14
6	AP-Cloud: Adaptive Particle-in-Cloud method for optimal solutions to Vlasov-Poisson equation. Journal of Computational Physics, 2016, 316, 682-699.	3.8	13
7	Near-field models and simulations of pellet ablation in tokamaks. Physics of Plasmas, 2021, 28, .	1.9	13
8	On the structure of plasma liners for plasma jet induced magnetoinertial fusion. Physics of Plasmas, 2013, 20, .	1.9	12
9	Lagrangian particle method for compressible fluid dynamics. Journal of Computational Physics, 2018, 362, 1-19.	3.8	12
10	Lagrangian particle model for 3D simulation of pellets and SPI fragments in tokamaks. Nuclear Fusion, 2021, 61, 046007.	3.5	12
11	Evolution of the self-injection process in long wavelength infrared laser driven LWFA. Physics of Plasmas, 2021, 28, .	1.9	11
12	Simulation of beam-induced plasma in gas-filled rf cavities. Physical Review Accelerators and Beams, 2017, 20, .	1.6	11
13	Influence of atomic processes on the implosion of plasma liners. Physics of Plasmas, 2012, 19, .	1.9	10
14	A TSTT integrated FronTier code and its applications in computational fluid physics. Journal of Physics: Conference Series, 2005, 16, 471-475.	0.4	7
15	Simulation studies of modulator for coherent electron cooling. Physical Review Accelerators and Beams, 2018, 21, .	1.6	7
16	Simulation study of the influence of experimental variations on the structure and quality of plasma liners. Physics of Plasmas, 2019, 26, 032704.	1.9	6
17	Finite Element Model for Brittle Fracture and Fragmentation. Procedia Computer Science, 2016, 80, 245-256.	2.0	5
18	SPACE: 3D parallel solvers for Vlasov-Maxwell and Vlasov-Poisson equations for relativistic plasmas with atomic transformations. Computer Physics Communications, 2022, 277, 108396.	7.5	3

#	ARTICLE	IF	CITATIONS
19	Second Order Upwind Lagrangian Particle Method for Euler Equations. Procedia Computer Science, 2016, 80, 2433-2437.	2.0	0