## Alexander V Rodionov

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Complement to the "Kolgan project― Journal of Computational Physics, 2012, 231, 4465-4468.	3.8	268
2	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. Icarus, 1997, 127, 319-353.	2.5	146
3	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. Icarus, 1997, 129, 72-93.	2.5	81
4	Direct Monte Carlo and multifluid modeling of the circumnuclear dust comaSpherical grain dynamics revisited. Icarus, 2005, 176, 192-219.	2.5	68
5	Comparison between Navier–Stokes and Direct Monte–Carlo Simulations of the Circumnuclear Coma I. Homogeneous, Spherical Source. Icarus, 2002, 156, 249-268.	2.5	62
6	An advanced physical model of cometary activity. Planetary and Space Science, 2002, 50, 983-1024.	1.7	50
7	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. Icarus, 1999, 138, 85-106.	2.5	48
8	Modelling the circumnuclear coma of comets: objectives, methods and recent results fn2 fn2Invited talk presented at the Workshop on the Rosetta Targets: Observations, Modelling and Future Work held at Osservatorio Astronomico di Capodimonte, Naples (Italy), December 10–11, 1997 Planetary and Space Science, 1999, 47, 797-826.	1.7	47
9	Artificial viscosity in Godunov-type schemes to cure the carbuncle phenomenon. Journal of Computational Physics, 2017, 345, 308-329.	3.8	44
10	Navier–Stokes and direct Monte Carlo simulations of the circumnuclear coma II. Homogeneous, aspherical sources. Icarus, 2003, 163, 479-503.	2.5	35
11	Methods of increasing the accuracy in Godunov's scheme. USSR Computational Mathematics and Mathematical Physics, 1987, 27, 164-169.	0.0	24
12	Monte-Carlo and multifluid modelling of the circumnuclear dust coma II. Aspherical-homogeneous, and spherical-inhomogeneous nuclei. Icarus, 2009, 201, 358-380.	2.5	24
13	Monotonic scheme of the second order of approximation for the continuous calculation of non-equilibrium flows. USSR Computational Mathematics and Mathematical Physics, 1987, 27, 175-180.	0.0	23
14	Comet Hyakutake Gas Arcs: First Observational Evidence of Standing Shock Waves in a Cometary Coma. Icarus, 1998, 136, 232-267.	2.5	19
15	Artificial viscosity to cure the shock instability in high-order Godunov-type schemes. Computers and Fluids, 2019, 190, 77-97.	2.5	18
16	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus IV. Structure of the Night-Side Gas Coma of a Strongly Sublimating Nucleus. Icarus, 2000, 148, 464-478.	2.5	16
17	The near-nucleus gas coma of comet 67P/Churyumov-Gerasimenko prior to the descent of the surface lander PHILAE. Astronomy and Astrophysics, 2018, 618, A71.	5.1	13
18	Navier–Stokes and direct Monte-Carlo simulations of the circumnuclear gas coma. Icarus, 2008, 194, 327-346.	2.5	11

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19	Artificial viscosity to cure the carbuncle phenomenon: The three-dimensional case. Journal of Computational Physics, 2018, 361, 50-55.	3.8	11
20	The Near-Nuclear Coma of Comet Halley in March 1986. Earth, Moon and Planets, 2002, 90, 435-443.	0.6	10
21	Practical relations for assessments of the gas coma parameters. Icarus, 2021, 354, 114091.	2.5	10
22	Simplified artificial viscosity approach for curing the shock instability. Computers and Fluids, 2021, 219, 104873.	2.5	9
23	Time-dependent, three-dimensional fluid model of the outer coma, with application to the comet Hale-Bopp gas spirals. Advances in Space Research, 2006, 38, 1923-1927.	2.6	8
24	On the use of Boussinesq approximation in turbulent supersonic jet modeling. International Journal of Heat and Mass Transfer, 2010, 53, 889-901.	4.8	8
25	On the similarity of dust flows in the inner coma of comets. Icarus, 2021, 364, 114476.	2.5	7
26	A new approach for modeling the dust dynamics in the near-nucleus coma. Advances in Space Research, 2006, 38, 1976-1982.	2.6	5
27	Simulated measurements of 67P/Churyumov–Gerasimenko dust coma at 3 AU by the Rosetta GIADA instrument using the GIPSI tool. Astronomy and Computing, 2014, 5, 57-69.	1.7	5
28	The Near-Nuclear Coma of Comet Halley in March 1986. , 2002, , 435-443.		2