

Alexander V Rodionov

List of Publications by Year in descending order

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1,072
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516710

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27
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docs citations

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times ranked

833
citing authors

#	ARTICLE	IF	CITATIONS
1	Practical relations for assessments of the gas coma parameters. <i>Icarus</i> , 2021, 354, 114091.	2.5	10
2	Simplified artificial viscosity approach for curing the shock instability. <i>Computers and Fluids</i> , 2021, 219, 104873.	2.5	9
3	On the similarity of dust flows in the inner coma of comets. <i>Icarus</i> , 2021, 364, 114476.	2.5	7
4	Artificial viscosity to cure the shock instability in high-order Godunov-type schemes. <i>Computers and Fluids</i> , 2019, 190, 77-97.	2.5	18
5	Artificial viscosity to cure the carbuncle phenomenon: The three-dimensional case. <i>Journal of Computational Physics</i> , 2018, 361, 50-55.	3.8	11
6	The near-nucleus gas coma of comet 67P/Churyumov-Gerasimenko prior to the descent of the surface lander PHILAE. <i>Astronomy and Astrophysics</i> , 2018, 618, A71.	5.1	13
7	Artificial viscosity in Godunov-type schemes to cure the carbuncle phenomenon. <i>Journal of Computational Physics</i> , 2017, 345, 308-329.	3.8	44
8	Simulated measurements of 67P/Churyumov-Gerasimenko dust coma at 3 AU by the Rosetta GIADA instrument using the GIPSI tool. <i>Astronomy and Computing</i> , 2014, 5, 57-69.	1.7	5
9	Complement to the "Kolgan project". <i>Journal of Computational Physics</i> , 2012, 231, 4465-4468.	3.8	268
10	On the use of Boussinesq approximation in turbulent supersonic jet modeling. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 889-901.	4.8	8
11	Monte-Carlo and multifluid modelling of the circumnuclear dust coma II. Aspherical-homogeneous, and spherical-inhomogeneous nuclei. <i>Icarus</i> , 2009, 201, 358-380.	2.5	24
12	Navier-Stokes and direct Monte-Carlo simulations of the circumnuclear gas coma. <i>Icarus</i> , 2008, 194, 327-346.	2.5	11
13	Time-dependent, three-dimensional fluid model of the outer coma, with application to the comet Hale-Bopp gas spirals. <i>Advances in Space Research</i> , 2006, 38, 1923-1927.	2.6	8
14	A new approach for modeling the dust dynamics in the near-nucleus coma. <i>Advances in Space Research</i> , 2006, 38, 1976-1982.	2.6	5
15	Direct Monte Carlo and multifluid modeling of the circumnuclear dust coma Spherical grain dynamics revisited. <i>Icarus</i> , 2005, 176, 192-219.	2.5	68
16	Navier-Stokes and direct Monte Carlo simulations of the circumnuclear coma II. Homogeneous, aspherical sources. <i>Icarus</i> , 2003, 163, 479-503.	2.5	35
17	Comparison between Navier-Stokes and Direct Monte Carlo Simulations of the Circumnuclear Coma I. Homogeneous, Spherical Source. <i>Icarus</i> , 2002, 156, 249-268.	2.5	62
18	An advanced physical model of cometary activity. <i>Planetary and Space Science</i> , 2002, 50, 983-1024.	1.7	50

#	ARTICLE	IF	CITATIONS
19	The Near-Nuclear Coma of Comet Halley in March 1986. <i>Earth, Moon and Planets</i> , 2002, 90, 435-443.	0.6	10
20	The Near-Nuclear Coma of Comet Halley in March 1986. , 2002, , 435-443.		2
21	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. <i>Icarus</i> , 2000, 148, 464-478.	2.5	16
22	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 10â€“11, 1997.. <i>Planetary and Space Science</i> , 1999, 47, 797-826.	1.7	47
23	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. <i>Icarus</i> , 1999, 138, 85-106.	2.5	48
24	Comet Hyakutake Gas Arcs: First Observational Evidence of Standing Shock Waves in a Cometary Coma. <i>Icarus</i> , 1998, 136, 232-267.	2.5	19
25	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. <i>Icarus</i> , 1997, 127, 319-353.	2.5	146
26	The Dependence of the Circumnuclear Coma Structure on the Properties of the Nucleus. <i>Icarus</i> , 1997, 129, 72-93.	2.5	81
27	Monotonic scheme of the second order of approximation for the continuous calculation of non-equilibrium flows. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1987, 27, 175-180.	0.0	23
28	Methods of increasing the accuracy in Godunov's scheme. <i>USSR Computational Mathematics and Mathematical Physics</i> , 1987, 27, 164-169.	0.0	24