Vitaly V Akimkin

List of Publications by Year
in descending order

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29	517	687363 13	677142 22
papers	citations	h-index	g-index

29	29	29	453
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A numerical approach to model chemistry of complex organic molecules in a protoplanetary disk. Open Astronomy, 2022, 31, 80-91.	0.6	0
2	Evolution of dust in protoplanetary disks of eruptive stars. Astronomy and Astrophysics, 2022, 658, A191.	5.1	12
3	The Young Binary DQ Tau Produces Another X-Ray Flare Near Periastron. Research Notes of the AAS, 2022, 6, 64.	0.7	4
4	Gravitoviscous Protoplanetary Disks with a Dust Component. V. The Dynamic Model for Freeze-out and Sublimation of Volatiles. Astrophysical Journal, 2021, 910, 153.	4.5	9
5	Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. II. Increased Grain Collisional Velocities. Astrophysical Journal, 2021, 917, 82.	4.5	9
6	Gravitoviscous protoplanetary discs with a dust component â€“ IV. Disc outer edges, spectral indices, and opacity gaps. Monthly Notices of the Royal Astronomical Society, 2020, 499, 5578-5597.	4.4	10
7	Gravitoviscous protoplanetary disks with a dust component. Astronomy and Astrophysics, 2020, 637, A5.	5.1	20
8	Inhibited Coagulation of Micron-size Dust Due to the Electrostatic Barrier. Astrophysical Journal, 2020, 889, 64.	4.5	13
9	Simulations of Dynamical Gasâ€“Dust Circumstellar Disks: Going Beyond the Epstein Regime. Astronomy Reports, 2020, 64, 107-125.	0.9	9
10	Using HCO⁺ isotopologues as tracers of gas depletion in protoplanetary disk gaps. Astronomy and Astrophysics, 2020, 644, A4.	5.1	8
11	ALMA and VLA Observations of EX Lupi in Its Quiescent State. Astrophysical Journal, 2020, 904, 37.	4.5	4
12	Infrared photometric properties of inner and outer parts of HII regions. Research in Astronomy and Astrophysics, 2019, 19, 148.	1.7	0
13	Revealing dust segregation in protoplanetary discs with the help of multifrequency spectral index maps. Monthly Notices of the Royal Astronomical Society, 2019, 486, 3907-3914.	4.4	13
14	Luminosity outburst chemistry in protoplanetary discs: going beyond standard tracers. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1843-1863.	4.4	22
15	Gravitoviscous protoplanetary disks with a dust component. Astronomy and Astrophysics, 2019, 627, A154.	5.1	22
16	Development and application of fast methods for computing momentum transfer between gas and dust in supercomputer simulation of planet formation. Journal of Physics: Conference Series, 2018, 1103, 012008.	0.4	3
17	Chemical Signatures of the FU Ori Outbursts. Astrophysical Journal, 2018, 866, 46.	4.5	29
18	Retention of Small Charged Dust in Planet Forming Disks. Proceedings of the International Astronomical Union, 2018, 14, 283-284.	0.0	0

#	Article	IF	Citations
19	Chemical modeling of FU Ori protoplanetary disks. Proceedings of the International Astronomical Union, 2018, 14, 367-368.	0.0	0
20	Early evolution of viscous and self-gravitating circumstellar disks with a dust component. Astronomy and Astrophysics, 2018, 614, A98.	5.1	54
21	Gas Mass Tracers in Protoplanetary Disks: CO is Still the Best. Astrophysical Journal, 2017, 849, 130.	4.5	54
22	Dust dynamics and evolution in Hâ€‰ii regions â€“ II. Effects of dynamical coupling between dust and gas. Monthly Notices of the Royal Astronomical Society, 2017, 469, 630-638.	4.4	38
23	IONIZATION AND DUST CHARGING IN PROTOPLANETARY DISKS. Astrophysical Journal, 2016, 833, 92.	4.5	21
24	Dust dynamics and evolution in expanding Hâ€‰ii regions. I. Radiative drift of neutral and charged grains. Monthly Notices of the Royal Astronomical Society, 2015, 449, 440-450.	4.4	43
25	A possible mechanism for overcoming the electrostatic barrier against dust growth in protoplanetary disks. Astronomy Reports, 2015, 59, 747-761.	0.9	14
26	PROTOPLANETARY DISK STRUCTURE WITH GRAIN EVOLUTION: THE ANDES MODEL. Astrophysical Journal, 2013, 766, 8.	4.5	74
27	Structure of CB 26 protoplanetary disk derived from millimeter dust continuum maps. Astronomy Reports, 2012, 56, 915-930.	0.9	7
28	Stochastic grain heating and mid-infrared emission in protostellar cores. Monthly Notices of the Royal Astronomical Society, 2012, 421, 2430-2441.	4.4	19
29	UV-controlled physical and chemical structure of protoplanetary disks. Astrophysics and Space Science, 2011, 335, 33-38.	1.4	6