Alexei V Ivlev

List of Publications by Year in descending order

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331670 214800 2,183 48 21 47 citations h-index g-index papers 48 48 48 1158 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Complex plasmas: An interdisciplinary research field. Reviews of Modern Physics, 2009, 81, 1353-1404.	45.6	655
2	Complex Plasmas and Colloidal Dispersions. Series in Sof Condensed Matter, 2012, , .	0.1	275
3	PKE-Nefedov*: plasma crystal experiments on the International Space Station. New Journal of Physics, 2003, 5, 33-33.	2.9	232
4	Cosmic-ray ionisation in circumstellar discs. Astronomy and Astrophysics, 2018, 614, A111.	5.1	111
5	Complex plasma—the plasma state of soft matter. Soft Matter, 2011, 7, 1287-1298.	2.7	86
6	Highly Resolved Fluid Flows: "Liquid Plasmas―at the Kinetic Level. Physical Review Letters, 2004, 92, 175004.	7.8	80
7	Impact of Low-Energy Cosmic Rays on Star Formation. Space Science Reviews, 2020, 216, 1.	8.1	67
8	Penetration of Cosmic Rays into Dense Molecular Clouds: Role of Diffuse Envelopes $<$ sup $>$ \hat{a} $-<$ /sup $>$ Astrophysical Journal, 2018, 855, 23.	4.5	52
9	Tunable two-dimensional assembly of colloidal particles in rotating electric fields. Scientific Reports, 2017, 7, 13727.	3.3	51
10	Charge-induced gelation of microparticles. New Journal of Physics, 2005, 7, 227-227.	2.9	32
11	Interparticle Attraction in 2D Complex Plasmas. Physical Review Letters, 2016, 116, 125001.	7.8	32
12	Production of atomic hydrogen by cosmic rays in dark clouds. Astronomy and Astrophysics, 2018, 619, A144.	5.1	31
13	Diffusive versus Free-streaming Cosmic-Ray Transport in Molecular Clouds. Astrophysical Journal, 2019, 879, 14.	4.5	31
14	A review of liquid and crystalline plasmasâ€"new physical states of matter?. Plasma Physics and Controlled Fusion, 2002, 44, B263-B277.	2.1	30
15	Agglomeration of microparticles in complex plasmas. Physics of Plasmas, 2010, 17, .	1.9	26
16	Pair correlations in classical crystals: The shortest-graph method. Journal of Chemical Physics, 2015, 143, 034506.	3.0	26
17	Magnetic Mirroring and Focusing of Cosmic Rays. Astrophysical Journal, 2018, 863, 188.	4.5	26
18	Slow Dynamics in a Quasi-Two-Dimensional Binary Complex Plasma. Physical Review Letters, 2019, 123, 185002.	7.8	25

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19	Gas and Dust Temperature in Prestellar Cores Revisited: New Limits on Cosmic-Ray Ionization Rate. Astrophysical Journal, 2019, 884, 176.	4.5	25
20	Dissipative phase transitions in systems with nonreciprocal effective interactions. Soft Matter, 2018, 14, 9720-9729.	2.7	23
21	Rapid elimination of small dust grains in molecular clouds. Astronomy and Astrophysics, 2020, 641, A39.	5.1	23
22	Interpolation method for pair correlations in classical crystals. Journal of Physics Condensed Matter, 2016, 28, 235401.	1.8	22
23	Emerging activity in bilayered dispersions with wake-mediated interactions. Journal of Chemical Physics, 2016, 144, 224901.	3.0	21
24	Electrorheological Complex Plasmas. IEEE Transactions on Plasma Science, 2010, 38, 733-740.	1.3	18
25	Dust charge distribution in the interstellar medium. Monthly Notices of the Royal Astronomical Society, 2019, 485, 1220-1247.	4.4	16
26	Microscopic theory for anisotropic pair correlations in driven binary mixtures. Journal of Physics Condensed Matter, 2012, 24, 464115.	1.8	15
27	Gamma-Ray Emission from Molecular Clouds Generated by Penetrating Cosmic Rays. Astrophysical Journal, 2018, 868, 114.	4.5	15
28	Solid phases in electro- and magnetorheological systems. Journal of Chemical Physics, 2009, 130, 204513.	3.0	14
29	Inhibited Coagulation of Micron-size Dust Due to the Electrostatic Barrier. Astrophysical Journal, 2020, 889, 64.	4.5	13
30	Rigorous Theory for Secondary Cosmic-Ray Ionization. Astrophysical Journal, 2021, 909, 107.	4.5	13
31	Structure and dynamics of a glass-forming binary complex plasma with non-reciprocal interaction. Europhysics Letters, 2018, 123, 35001.	2.0	11
32	Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. I. Relevant Turbulence Properties. Astrophysical Journal, 2020, 891, 172.	4.5	11
33	Glass transition of charged particles in two-dimensional confinement. Physical Review E, 2015, 91, 052301.	2.1	10
34	Phase diagram of two-dimensional colloids with Yukawa repulsion and dipolar attraction. Journal of Chemical Physics, 2019, 150, 104903.	3.0	10
35	Impact of Magnetorotational Instability on Grain Growth in Protoplanetary Disks. II. Increased Grain Collisional Velocities. Astrophysical Journal, 2021, 917, 82.	4.5	9
36	Compact Dusty Clouds and Efficient H ₂ Formation in Diffuse Interstellar Medium. Astrophysical Journal, 2018, 861, 30.	4.5	7

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37	Ice mantles on dust grains: dramatic variation of thickness with grain size. Monthly Notices of the Royal Astronomical Society, 2021, 507, 6205-6214.	4.4	7
38	Cosmic-Ray Tracks in Astrophysical Ices: Modeling with the Geant4-DNA Monte Carlo Toolkit. Astrophysical Journal, 2020, 904, 189.	4.5	7
39	Formation of the Cosmic-Ray Halo: Galactic Spectrum of Primary Cosmic Rays. Astrophysical Journal, 2020, 903, 135.	4.5	5
40	Demixing in Binary Complex Plasma: Computer Simulation. IEEE Transactions on Plasma Science, 2011, 39, 2752-2753.	1.3	4
41	Exclusion of Cosmic Rays from Molecular Clouds by Self-generated Electric Fields. Astrophysical Journal Letters, 2020, 902, L25.	8.3	4
42	Self-modulation of Cosmic Rays in Molecular Clouds: Imprints in the Radio Observations. Astrophysical Journal, 2021, 921, 43.	4.5	3
43	Bursting Bubbles in a Complex Plasma. IEEE Transactions on Plasma Science, 2011, 39, 2726-2727.	1.3	2
44	Stopping power: Effect of the projectile deceleration. Physics of Plasmas, 2014, 21, .	1.9	2
45	Thermal Damping of Weak Magnetosonic Turbulence in the Interstellar Medium. Astrophysical Journal, 2021, 922, 10.	4.5	2
46	Weakly anisotropic and string fluid phases in magnetorheological systems. Journal of Magnetism and Magnetic Materials, 2011, 323, 1368-1371.	2.3	1
47	Study of the Projectile Motion in a Dust Crystal Under Microgravity Conditions. IEEE Transactions on Plasma Science, 2014, 42, 2678-2679.	1.3	1
48	On a Possible Origin of the Gamma-ray Excess around the Galactic Center, Symmetry, 2021, 13, 1432.	2.2	1