

Dominik R G Schleicher

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

2,084
citations

279701

23
h-index

233338

45
g-index

62
all docs

62
docs citations

62
times ranked

1953
citing authors

#	ARTICLE	IF	CITATIONS
1	A NEW JEANS RESOLUTION CRITERION FOR (M)HD SIMULATIONS OF SELF-GRAVITATING GAS: APPLICATION TO MAGNETIC FIELD AMPLIFICATION BY GRAVITY-DRIVEN TURBULENCE. <i>Astrophysical Journal</i> , 2011, 731, 62.	1.6	274
2	The First Magnetic Fields. <i>Space Science Reviews</i> , 2012, 166, 37-70.	3.7	191
3	Massive black hole factories: Supermassive and quasi-star formation in primordial halos. <i>Astronomy and Astrophysics</i> , 2013, 558, A59.	2.1	127
4	THE SMALL-SCALE DYNAMO AND NON-IDEAL MAGNETOHYDRODYNAMICS IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 754, 99.	1.6	119
5	THE TURBULENT DYNAMO IN HIGHLY COMPRESSIBLE SUPERSONIC PLASMAS. <i>Astrophysical Journal Letters</i> , 2014, 797, L19.	3.0	94
6	A new interpretation of the far-infrared α_{CO} radio correlation and the expected breakdown at high redshift. <i>Astronomy and Astrophysics</i> , 2013, 556, A142.	2.1	90
7	Magnetic field amplification by small-scale dynamo action: Dependence on turbulence models and Reynolds and Prandtl numbers. <i>Physical Review E</i> , 2012, 85, 026303.	0.8	78
8	BLACK HOLE FORMATION IN PRIMORDIAL GALAXIES: CHEMICAL AND RADIATIVE CONDITIONS. <i>Astrophysical Journal Letters</i> , 2010, 712, L69-L72.	3.0	73
9	Magnetic field amplification during gravitational collapse - influence of turbulence, rotation and gravitational compression. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 3148-3162.	1.6	68
10	Atypical Mg-poor Milky Way Field Stars with Globular Cluster Second-generation-like Chemical Patterns. <i>Astrophysical Journal Letters</i> , 2017, 846, L2.	3.0	66
11	Reionization: A probe for the stellar population and the physics of the early universe. <i>Physical Review D</i> , 2008, 78, .	1.6	59
12	THE INFLUENCE OF MAGNETIC FIELDS ON THE THERMODYNAMICS OF PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2009, 703, 1096-1106.	1.6	56
13	Planet formation from the ejecta of common envelopes. <i>Astronomy and Astrophysics</i> , 2014, 563, A61.	2.1	52
14	The small-scale dynamo: breaking universality at high Mach numbers. <i>New Journal of Physics</i> , 2013, 15, 023017.	1.2	42
15	THE FORMATION OF MASSIVE PRIMORDIAL STARS IN THE PRESENCE OF MODERATE UV BACKGROUNDS. <i>Astrophysical Journal</i> , 2014, 792, 78.	1.6	41
16	INFLUENCE OF PRIMORDIAL MAGNETIC FIELDS ON 21 CM EMISSION. <i>Astrophysical Journal</i> , 2009, 692, 236-245.	1.6	37
17	IMPACT OF DUST COOLING ON DIRECT-COLLAPSE BLACK HOLE FORMATION. <i>Astrophysical Journal</i> , 2016, 823, 40.	1.6	37
18	Small-scale dynamo at low magnetic Prandtl numbers. <i>Physical Review E</i> , 2012, 86, 066412.	0.8	32

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19	WEAKLY INTERACTING MASSIVE PARTICLE DARK MATTER AND FIRST STARS: SUPPRESSION OF FRAGMENTATION IN PRIMORDIAL STAR FORMATION. <i>Astrophysical Journal</i> , 2012, 761, 154.	1.6	30
20	Magnetic field amplification in accretion discs around the first stars: implications for the primordial IMF. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2014-2032.	1.6	29
21	THE IMPACT OF THERMODYNAMICS ON GRAVITATIONAL COLLAPSE: FILAMENT FORMATION AND MAGNETIC FIELD AMPLIFICATION. <i>Astrophysical Journal Letters</i> , 2012, 760, L28.	3.0	27
22	Dark stars: Implications and constraints from cosmic reionization and extragalactic background radiation. <i>Physical Review D</i> , 2009, 79, .	1.6	26
23	The effect of non-equilibrium metal cooling on the interstellar medium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3283-3304.	1.6	23
24	Formation of supermassive black hole seeds in nuclear star clusters via gas accretion and runaway collisions. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 1051-1069.	1.6	23
25	Magnetic field amplification by the small-scale dynamo in the early Universe. <i>Physical Review D</i> , 2014, 89, .	1.6	21
26	Low-metallicity star formation: relative impact of metals and magnetic fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 3112-3126.	1.6	21
27	FORMATION OF CARBON-ENHANCED METAL-POOR STARS IN THE PRESENCE OF FAR-ULTRAVIOLET RADIATION. <i>Astrophysical Journal Letters</i> , 2014, 790, L35.	3.0	21
28	Star-forming dwarf galaxies: the correlation between far-infrared and radio fluxes. <i>Astronomy and Astrophysics</i> , 2016, 593, A77.	2.1	21
29	A nonlinear structural subgrid-scale closure for compressible MHD. II. <i>a priori</i> comparison on turbulence simulation data. <i>Physics of Plasmas</i> , 2016, 23, .	0.7	21
30	Deuterium fractionation and H ₂ D ⁺ evolution in turbulent and magnetized cloud cores. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 2602-2625.	1.6	21
31	Primordial magnetic field constraints from the end of reionization. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 418, L143-L147.	1.2	18
32	The 3D Structure of CO Depletion in High-mass Prestellar Regions. <i>Astrophysical Journal</i> , 2019, 887, 224.	1.6	18
33	The Role of Gas Fragmentation During the Formation of Supermassive Black Holes. <i>Astrophysical Journal</i> , 2019, 885, 127.	1.6	18
34	Nonlinear closures for scale separation in supersonic magnetohydrodynamic turbulence. <i>New Journal of Physics</i> , 2015, 17, 023070.	1.2	17
35	A nonlinear structural subgrid-scale closure for compressible MHD. I. Derivation and energy dissipation properties. <i>Physics of Plasmas</i> , 2016, 23, 062316.	0.7	17
36	Radiation hydrodynamical simulations of the birth of intermediate-mass black holes in the first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 1756-1767.	1.6	17

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37	Comparative statistics of selected subgrid-scale models in large-eddy simulations of decaying, supersonic magnetohydrodynamic turbulence. <i>Physical Review E</i> , 2017, 95, 033206.	0.8	16
38	A dynamo mechanism as the potential origin of the long cycle in double periodic variables. <i>Astronomy and Astrophysics</i> , 2017, 602, A109.	2.1	16
39	H ₂ Ortho-to-para Conversion on Grains: A Route to Fast Deuterium Fractionation in Dense Cloud Cores?. <i>Astrophysical Journal Letters</i> , 2017, 849, L25.	3.0	16
40	Lyman λ emission from the first galaxies: signatures of accretion and infall in the presence of line trapping. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2011, 413, L33-L37.	1.2	15
41	Magnetic tension and instabilities in the Orion A integral-shaped filament. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 121-127.	1.6	15
42	Star formation and accretion in the circumnuclear disks of active galaxies. <i>Astronomy and Astrophysics</i> , 2013, 560, A34.	2.1	13
43	Modeling gravitational instabilities in self-gravitating protoplanetary disks with adaptive mesh refinement techniques. <i>Astronomy and Astrophysics</i> , 2015, 579, A32.	2.1	10
44	The Formation of Supermassive Black Holes in the First Galaxies. , 2010, , .		9
45	Effect of mass-loss due to stellar winds on the formation of supermassive black hole seeds in dense nuclear star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 505, 2186-2194.	1.6	8
46	Magnetic fields during galaxy mergers. <i>Astronomy and Astrophysics</i> , 2016, 593, A89.	2.1	8
47	Cosmic constraints rule out s-wave annihilation of light dark matter. <i>Physical Review D</i> , 2009, 79, .	1.6	6
48	The chemical evolution of self-gravitating primordial disks. <i>Astronomy and Astrophysics</i> , 2016, 585, A11.	2.1	5
49	Evidence of Active Regions in the Donor of the Algol-type Binary V393 Scorpii and Test for the Dynamo Model of its Long Cycle. <i>Publications of the Astronomical Society of the Pacific</i> , 2018, 130, 094203.	1.0	5
50	Turbulent gas accretion between supermassive black-holes and star-forming rings in the circumnuclear disk. <i>Astronomy and Astrophysics</i> , 2017, 602, A84.	2.1	4
51	Formation of Population II Star Clusters in the Aftermath of a Pair Instability Supernova. <i>Astrophysical Journal Letters</i> , 2020, 902, L31.	3.0	4
52	The First Magnetic Fields. <i>Space Sciences Series of ISSI</i> , 2011, , 37-70.	0.0	3
53	Stellar and Accretion Disk Parameters of the Close Binary HD 50526. <i>Astronomical Journal</i> , 2021, 162, 66.	1.9	2
54	Origin of eclipsing time variations: Contributions of different modes of the dynamo-generated magnetic field. <i>Astronomy and Astrophysics</i> , 2022, 663, A90.	2.1	2

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55	Fundamental Parameters of the Eclipsing Binary DD CMa and Evidence for Mass Exchange. <i>Astronomical Journal</i> , 2021, 161, 165.	1.9	1
56	The Fermi paradox: impact of astrophysical processes and dynamical evolution. <i>International Journal of Astrobiology</i> , 0, , 1-14.	0.9	1
57	Detecting the First Quasars with ALMA. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 52-52.	0.0	0
58	Detecting the first quasars with ALMA. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 426-426.	0.0	0
59	Primordial Magnetic Fields: Reionization Constraints and Implications for the First Stars. , 2010, , .		0
60	Dark matter annihilation feedback: Effects upon collapse and fragmentation. , 2012, , .		0
61	Small-scale dynamo action in primordial halos. <i>Proceedings of the International Astronomical Union</i> , 2012, 8, 237-248.	0.0	0
62	Synthetic observations using POLARIS: an application to simulations of massive prestellar cores. <i>Astrophysics and Space Science</i> , 2022, 367, .	0.5	0