

# Volker Bromm

## List of Publications by Year in descending order

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89  
papers

5,944  
citations

126907

33  
h-index

76900

74  
g-index

90  
all docs

90  
docs citations

90  
times ranked

2439  
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing the initial mass function of the first stars with transients. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 511, 2505-2514.	4.4	12
2	Effects of stellar-mass primordial black holes on first star formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 2376-2396.	4.4	7
3	The Origin and Evolution of Ly $\alpha$ Blobs in Cosmological Galaxy Formation Simulations. <i>Astrophysical Journal</i> , 2021, 909, 119.	4.5	9
4	Highly r-process enhanced stars in ultra-faint dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 1850-1861.	4.4	15
5	Stellar winds and metal enrichment from fast-rotating Population III stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5247-5267.	4.4	14
6	Gravitational waves from the remnants of the first stars in nuclear star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 5451-5467.	4.4	9
7	Detectability of Population III stellar remnants as X-ray binaries from tidal captures in the local Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2169-2178.	4.4	2
8	The role of faint population III supernovae in forming CEMP stars in ultra-faint dwarf galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 502, 1-14.	4.4	22
9	Globular Clusters and Streaming Velocities: Testing the New Formation Channel in High-resolution Cosmological Simulations. <i>Astrophysical Journal</i> , 2021, 922, 193.	4.5	8
10	When did Population III star formation end?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 2839-2854.	4.4	43
11	Gravitational waves from Population III binary black holes formed by dynamical capture. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 2475-2495.	4.4	35
12	Lessons on early structure formation from a mature galaxy cluster observed at cosmic noon. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1700-1705.	4.4	2
13	Dynamical evolution of population III stellar systems and the resulting binary statistics. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 501, 643-663.	4.4	31
14	The Ultimately Large Telescope: What Kind of Facility Do We Need to Detect Population III Stars?. <i>Astrophysical Journal</i> , 2020, 904, 145.	4.5	22
15	The Population III Origin of GW190521. <i>Astrophysical Journal Letters</i> , 2020, 903, L40.	8.3	46
16	Titans of the early Universe: The Prato statement on the origin of the first supermassive black holes. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	114
17	Constraining the non-gravitational scattering of baryons and dark matter with early cosmic structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 4711-4720.	4.4	5
18	Legacy of star formation in the pre-reionization universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 2202-2221.	4.4	39

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19	Supermassive black holes in the early universe. <i>Contemporary Physics</i> , 2019, 60, 111-126.	1.8	27
20	Global radiation signature from early structure formation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3617-3635.	4.4	10
21	Signature of the first galaxies in JWST deep field observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 5939-5950.	4.4	17
22	Constraining First Star Formation with 21 cm Cosmology. <i>Astrophysical Journal Letters</i> , 2019, 877, L5.	8.3	44
23	The physics of Lyman- $\alpha$ escape from high-redshift galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 39-59.	4.4	76
24	Angular momentum transfer in primordial discs and the rotation of the first stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 3964-3973.	4.4	17
25	Discrete diffusion Lyman- $\alpha$ radiative transfer. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 2065-2078.	4.4	13
26	Minimum star-forming halo mass in axion cosmology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 481, L69-L73.	3.3	9
27	First star formation in ultralight particle dark matter cosmology. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 473, L6-L10.	3.3	21
28	Detection strategies for the first supernovae with JWST. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 2202-2213.	4.4	33
29	Baryon-dark matter scattering and first star formation. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 480, L85-L89.	3.3	15
30	Dust extinction in the first galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 3883-3888.	4.4	15
31	Baseline metal enrichment from Population III star formation in cosmological volume simulations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4396-4410.	4.4	56
32	Effect of lithium hydride on the cooling of primordial gas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 1826-1834.	4.4	8
33	First Galaxies and Massive Black Hole Seeds. <i>World Scientific Series in Astrophysics</i> , 2018, , 125-145.	1.0	0
34	Radiative effects during the assembly of direct collapse black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 205-216.	4.4	21
35	The first supermassive black holes. <i>Astronomy and Geophysics</i> , 2017, 58, 3.22-3.26.	0.2	25
36	Low-energy Population III supernovae and the origin of extremely metal-poor stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 467, 4731-4738.	4.4	21

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37	Formation and survival of Population III stellar systems. Monthly Notices of the Royal Astronomical Society, 2017, 470, 898-914.	4.4	74
38	Warm dark matter constraints from high-z direct collapse black holes using the JWST. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4414-4421.	4.4	16
39	Exploring the nature of the Lyman- $\alpha$ emitter CR7. Monthly Notices of the Royal Astronomical Society, 2016, 462, 2184-2202.	4.4	38
40	Building up the Population III initial mass function from cosmological initial conditions. Monthly Notices of the Royal Astronomical Society, 2016, 462, 1307-1328.	4.4	176
41	Gamma-Ray Bursts and Population III Stars. Space Science Reviews, 2016, 202, 159-180.	8.1	17
42	Evidence for a direct collapse black hole in the Lyman- $\alpha$ source CR7. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3143-3151.	4.4	41
43	Star formation in the first galaxies – III. Formation, evolution, and characteristics of the first metal-enriched stellar cluster. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3288-3302.	4.4	23
44	The first stars: formation under cosmic ray feedback. Monthly Notices of the Royal Astronomical Society, 2016, 460, 2432-2444.	4.4	13
45	Metal transport and chemical heterogeneity in early star forming systems. Monthly Notices of the Royal Astronomical Society, 2015, 451, 1190-1198.	4.4	57
46	The Lyman $\alpha$ signature of the first galaxies. Monthly Notices of the Royal Astronomical Society, 2015, 449, 4336-4362.	4.4	56
47	Recovery from Population III supernova explosions and the onset of second-generation star formation. Monthly Notices of the Royal Astronomical Society, 2014, 444, 3288-3300.	4.4	69
48	Formation of the first low-mass stars from cosmological initial conditions. Monthly Notices of the Royal Astronomical Society: Letters, 2014, 440, L76-L80.	3.3	32
49	Radiative feedback from high-mass X-ray binaries on the formation of the first galaxies and early reionization. Monthly Notices of the Royal Astronomical Society, 2014, 440, 3778-3796.	4.4	83
50	Imprint of an ancient conflagration. Science, 2014, 345, 868-869.	12.6	3
51	Formation of the first stars. Reports on Progress in Physics, 2013, 76, 112901.	20.1	246
52	Formation of the first galaxies. , 2012, , .		2
53	Assembly of the first disk galaxies under radiative feedback from pop III stars. , 2012, , .		0
54	CONFINED POPULATION III ENRICHMENT AND THE PROSPECTS FOR PROMPT SECOND-GENERATION STAR FORMATION. Astrophysical Journal, 2012, 761, 56.	4.5	95

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55	Simulating the First Galaxies. Proceedings of the International Astronomical Union, 2012, 8, 3-12.	0.0	0
56	Impact of the First Stars to the First Galaxy Formation. Proceedings of the International Astronomical Union, 2012, 8, 21-21.	0.0	0
57	Embers of the Distant Past. Science, 2012, 338, 1160-1161.	12.6	1
58	Star formation in the first galaxies - I. Collapse delayed by Lyman-Werner radiation. Monthly Notices of the Royal Astronomical Society, 2012, 426, 1159-1177.	4.4	72
59	Effect of Population III multiplicity on dark star formation. Monthly Notices of the Royal Astronomical Society, 2012, , no-no.	4.4	6
60	Formation and evolution of primordial protostellar systems. Monthly Notices of the Royal Astronomical Society, 2012, 424, 399-415.	4.4	271
61	The First Galaxies. Annual Review of Astronomy and Astrophysics, 2011, 49, 373-407.	24.3	361
62	The Formation and Fragmentation of Disks Around Primordial Protostars. Science, 2011, 331, 1040-1042.	12.6	320
63	EFFECT OF STREAMING MOTION OF BARYONS RELATIVE TO DARK MATTER ON THE FORMATION OF THE FIRST STARS. Astrophysical Journal Letters, 2011, 730, L1.	8.3	120
64	SIMULATIONS ON A MOVING MESH: THE CLUSTERED FORMATION OF POPULATION III PROTOSTARS. Astrophysical Journal, 2011, 737, 75.	4.5	375
65	THE FIRST GALAXIES: CHEMICAL ENRICHMENT, MIXING, AND STAR FORMATION. Astrophysical Journal, 2010, 716, 510-520.	4.5	208
66	The Chemical Enrichment of the First Galaxies. , 2010, , .		0
67	Assembly of the First Dwarf Galaxies. , 2010, , .		0
68	The First Stars: Formation of Binaries and Small Multiples. , 2010, , .		0
69	Effects of Turbulence on Zero- and Low-Metallicity Star Formation. , 2010, , .		0
70	The first stars: formation of binaries and small multiple systems. Monthly Notices of the Royal Astronomical Society, 2010, 403, 45-60.	4.4	297
71	To Cool or Not to Cool. Science, 2010, 329, 45-46.	12.6	3
72	The formation of the first stars and galaxies. Nature, 2009, 459, 49-54.	27.8	275

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73	The Very First Stars: Formation and Reionization of the Universe. Proceedings of the International Astronomical Union, 2009, 5, 27-33.	0.0	0
74	The first galaxies: assembly, cooling and the onset of turbulence. Monthly Notices of the Royal Astronomical Society, 2008, 387, 1021-1036.	4.4	192
75	The Cosmic Rosetta Stone. Science, 2008, 321, 647-648.	12.6	1
76	The First Galaxies. Proceedings of the International Astronomical Union, 2008, 4, 337-342.	0.0	2
77	Stellar Archaeology: Using Metal-Poor Stars to Test Theories of the Early Universe. Proceedings of the International Astronomical Union, 2008, 4, 336-340.	0.0	0
78	THE ORIGINS AND THE EARLY EVOLUTION OF QUASARS AND SUPERMASSIVE BLACK HOLES. , 2008, , .		16
79	From Darkness to Light. Science, 2007, 317, 1511-1512.	12.6	0
80	The First Stars. Proceedings of the International Astronomical Union, 2007, 3, 471-482.	0.0	1
81	Impact of cosmic rays on Population III star formation. Monthly Notices of the Royal Astronomical Society, 2007, 382, 229-238.	4.4	48
82	Two populations of metal-free stars in the early Universe. Monthly Notices of the Royal Astronomical Society, 2006, 373, 128-138.	4.4	135
83	GRB Cosmology and the First Stars. AIP Conference Proceedings, 2006, , .	0.4	2
84	Formation of the First Stars. Proceedings of the International Astronomical Union, 2005, 1, 121-128.	0.0	3
85	The Formation of the First Stars. I. The Primordial Star-forming Cloud. Astrophysical Journal, 2002, 564, 23-51.	4.5	853
86	The Formation of the First Globular Clusters in Dwarf Galaxies before the Epoch of Reionization. Astrophysical Journal, 2002, 566, L1-L4.	4.5	102
87	Generic Spectrum and Ionization Efficiency of a Heavy Initial Mass Function for the First Stars. Astrophysical Journal, 2001, 552, 464-472.	4.5	356
88	Gamma-ray burst cosmology. , 0, , 291-310.		1
89	Assembly of supermassive black hole seeds. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	19