

Michael S Titus

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

11,136
citations

76326

40
h-index

144013

57
g-index

60
all docs

60
docs citations

60
times ranked

4270
citing authors

#	ARTICLE	IF	CITATIONS
1	The Variability of the Black Hole Image in M87 at the Dynamical Timescale. <i>Astrophysical Journal</i> , 2022, 925, 13.	4.5	6
2	Uncovering the role of nanoscale precipitates on martensitic transformation and superelasticity. <i>Acta Materialia</i> , 2022, 229, 117790.	7.9	8
3	First Sagittarius A* Event Horizon Telescope Results. III. Imaging of the Galactic Center Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L14.	8.3	163
4	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. <i>Astrophysical Journal Letters</i> , 2022, 930, L21.	8.3	20
5	First Sagittarius A* Event Horizon Telescope Results. VI. Testing the Black Hole Metric. <i>Astrophysical Journal Letters</i> , 2022, 930, L17.	8.3	215
6	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. <i>Astrophysical Journal Letters</i> , 2022, 930, L13.	8.3	142
7	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. <i>Astrophysical Journal Letters</i> , 2022, 930, L15.	8.3	137
8	First Sagittarius A* Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole in the Center of the Milky Way. <i>Astrophysical Journal Letters</i> , 2022, 930, L12.	8.3	568
9	Selective Dynamical Imaging of Interferometric Data. <i>Astrophysical Journal Letters</i> , 2022, 930, L18.	8.3	21
10	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2022, 930, L19.	8.3	43
11	A Universal Power-law Prescription for Variability from Synthetic Images of Black Hole Accretion Flows. <i>Astrophysical Journal Letters</i> , 2022, 930, L20.	8.3	20
12	First Sagittarius A* Event Horizon Telescope Results. V. Testing Astrophysical Models of the Galactic Center Black Hole. <i>Astrophysical Journal Letters</i> , 2022, 930, L16.	8.3	187
13	First M87 Event Horizon Telescope Results. VII. Polarization of the Ring. <i>Astrophysical Journal Letters</i> , 2021, 910, L12.	8.3	215
14	Polarimetric Properties of Event Horizon Telescope Targets from ALMA. <i>Astrophysical Journal Letters</i> , 2021, 910, L14.	8.3	67
15	First M87 Event Horizon Telescope Results. VIII. Magnetic Field Structure near The Event Horizon. <i>Astrophysical Journal Letters</i> , 2021, 910, L13.	8.3	297
16	Broadband Multi-wavelength Properties of M87 during the 2017 Event Horizon Telescope Campaign. <i>Astrophysical Journal Letters</i> , 2021, 911, L11.	8.3	56
17	VLBI measurement of the vector baseline between geodetic antennas at Kokee Park Geophysical Observatory, Hawaii. <i>Journal of Geodesy</i> , 2021, 95, 65.	3.6	8
18	The Polarized Image of a Synchrotron-emitting Ring of Gas Orbiting a Black Hole. <i>Astrophysical Journal</i> , 2021, 912, 35.	4.5	43

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19	Event Horizon Telescope observations of the jet launching and collimation in Centaurus A. <i>Nature Astronomy</i> , 2021, 5, 1017-1028.	10.1	65
20	Automated approach to discover coherent precipitates in multi-component shape memory alloys. <i>Computational Materials Science</i> , 2021, 197, 110651.	3.0	1
21	First-principles study of Suzuki segregation at stacking faults in disordered face-centered cubic Co-Ni alloys. <i>Acta Materialia</i> , 2021, 221, 117358.	7.9	9
22	Martensitic transformation in superlattices of two non-transforming metals. <i>Journal of Applied Physics</i> , 2021, 130, 165105.	2.5	1
23	Structure and tensile properties of Mx(MnFeCoNi)100-x solid solution strengthened high entropy alloys. <i>Materialia</i> , 2020, 9, 100539.	2.7	10
24	Verification of Radiative Transfer Schemes for the EHT. <i>Astrophysical Journal</i> , 2020, 897, 148.	4.5	44
25	Planar Front Growth of Single Crystal Ni-Based Superalloy RenÃ© N515. <i>Jom</i> , 2020, 72, 1794-1802.	1.9	1
26	THEMIS: A Parameter Estimation Framework for the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 897, 139.	4.5	47
27	Tunability of martensitic transformation in Mg-Sc shape memory alloys: A DFT study. <i>Acta Materialia</i> , 2020, 189, 1-9.	7.9	14
28	Event Horizon Telescope imaging of the archetypal blazar 3C 279 at an extreme 20 microarcsecond resolution. <i>Astronomy and Astrophysics</i> , 2020, 640, A69.	5.1	54
29	Monitoring the Morphology of M87* in 2009â€“2017 with the Event Horizon Telescope. <i>Astrophysical Journal</i> , 2020, 901, 67.	4.5	51
30	Supersolvus Hot Workability and Dynamic Recrystallization in Wrought Coâ€“Alâ€“W-Base Alloys. <i>Minerals, Metals and Materials Series</i> , 2020, , 857-869.	0.4	0
31	The Event Horizon General Relativistic Magnetohydrodynamic Code Comparison Project. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 26.	7.7	175
32	First M87 Event Horizon Telescope Results. III. Data Processing and Calibration. <i>Astrophysical Journal Letters</i> , 2019, 875, L3.	8.3	519
33	First M87 Event Horizon Telescope Results. II. Array and Instrumentation. <i>Astrophysical Journal Letters</i> , 2019, 875, L2.	8.3	618
34	First M87 Event Horizon Telescope Results. IV. Imaging the Central Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L4.	8.3	806
35	First M87 Event Horizon Telescope Results. I. The Shadow of the Supermassive Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L1.	8.3	2,264
36	First M87 Event Horizon Telescope Results. V. Physical Origin of the Asymmetric Ring. <i>Astrophysical Journal Letters</i> , 2019, 875, L5.	8.3	814

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37	First M87 Event Horizon Telescope Results. VI. The Shadow and Mass of the Central Black Hole. <i>Astrophysical Journal Letters</i> , 2019, 875, L6.	8.3	897
38	Oxidation Behavior between 700 and 1300°C of Refractory TiZrNbHfTa High-Entropy Alloys Containing Aluminum. <i>Advanced Engineering Materials</i> , 2018, 20, 1700948.	3.5	88
39	Transmission scanning electron microscopy: Defect observations and image simulations. <i>Ultramicroscopy</i> , 2018, 186, 49-61.	1.9	42
40	Shearing of γ' particles in Co-base and Co-Ni-base superalloys. <i>Acta Materialia</i> , 2018, 161, 99-109.	7.9	45
41	Detection of Intrinsic Source Structure at $\sim 1/3$ Schwarzschild Radii with Millimeter-VLBI Observations of SAGITTARIUS A*. <i>Astrophysical Journal</i> , 2018, 859, 60.	4.5	67
42	Creep Behavior of Quinary γ' -Strengthened Co-Based Superalloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 4090-4098.	2.2	10
43	Materials response to glancing incidence femtosecond laser ablation. <i>Acta Materialia</i> , 2017, 124, 37-46.	7.9	47
44	Solute segregation and deviation from bulk thermodynamics at nanoscale crystalline defects. <i>Science Advances</i> , 2016, 2, e1601796.	10.3	56
45	PERSISTENT ASYMMETRIC STRUCTURE OF SAGITTARIUS A* ON EVENT HORIZON SCALES. <i>Astrophysical Journal</i> , 2016, 820, 90.	4.5	65
46	Thermal expansion behavior of new Co-based alloys and implications for coatings. <i>Surface and Coatings Technology</i> , 2016, 289, 61-68.	4.8	27
47	Role of vibrational and configurational excitations in stabilizing the γ' phase in Co-rich Co-Al-W alloys. <i>Physical Review B</i> , 2015, 92, .	3.2	109
48	Dislocation injection in strontium titanate by femtosecond laser pulses. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	21
49	Resolved magnetic-field structure and variability near the event horizon of Sagittarius A*. <i>Science</i> , 2015, 350, 1242-1245.	12.6	176
50	High resolution energy dispersive spectroscopy mapping of planar defects in L12-containing Co-base superalloys. <i>Acta Materialia</i> , 2015, 89, 423-437.	7.9	127
51	230 GHz VLBI OBSERVATIONS OF M87: EVENT HORIZON SCALE STRUCTURE DURING AN ENHANCED VERY-HIGH-ENERGY γ RAY STATE IN 2012. <i>Astrophysical Journal</i> , 2015, 807, 150.	4.5	98
52	Creep-induced planar defects in L12-containing Co- and CoNi-base single-crystal superalloys. <i>Acta Materialia</i> , 2015, 82, 530-539.	7.9	147
53	Creep deformation-induced antiphase boundaries in L1 2-containing single-crystal cobalt-base superalloys. <i>Acta Materialia</i> , 2014, 77, 352-359.	7.9	92
54	FINE-SCALE STRUCTURE OF THE QUASAR 3C 279 MEASURED WITH 1.3 mm VERY LONG BASELINE INTERFEROMETRY. <i>Astrophysical Journal</i> , 2013, 772, 13.	4.5	30

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55	Jet-Launching Structure Resolved Near the Supermassive Black Hole in M87. <i>Science</i> , 2012, 338, 355-358.	12.6	336
56	Creep and directional coarsening in single crystals of new ϵ -cobalt-base alloys. <i>Scripta Materialia</i> , 2012, 66, 574-577.	5.2	141
57	1.3 mm WAVELENGTH VLBI OF SAGITTARIUS A*: DETECTION OF TIME-VARIABLE EMISSION ON EVENT HORIZON SCALES. <i>Astrophysical Journal Letters</i> , 2011, 727, L36.	8.3	169
58	Event-horizon-scale structure in the supermassive black hole candidate at the Galactic Centre. <i>Nature</i> , 2008, 455, 78-80.	27.8	699