Gunther Witzel

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Relativistic redshift of the star S0-2 orbiting the Galactic Center supermassive black hole. Science, 2019, 365, 664-668.	12.6	270
2	AN IMPROVED DISTANCE AND MASS ESTIMATE FOR SGR A* FROM A MULTISTAR ORBIT ANALYSIS. Astrophysical Journal, 2016, 830, 17.	4.5	265
3	Testing General Relativity with Stellar Orbits around the Supermassive Black Hole in Our Galactic Center. Physical Review Letters, 2017, 118, 211101.	7.8	173
4	First Sagittarius A* Event Horizon Telescope Results. II. EHT and Multiwavelength Observations, Data Processing, and Calibration. Astrophysical Journal Letters, 2022, 930, L13.	8.3	142
5	First Sagittarius A* Event Horizon Telescope Results. IV. Variability, Morphology, and Black Hole Mass. Astrophysical Journal Letters, 2022, 930, L15.	8.3	137
6	Merging binaries in the Galactic Center: the eccentric Kozai–Lidov mechanism with stellar evolution. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3494-3504.	4.4	122
7	SOURCE-INTRINSIC NEAR-INFRARED PROPERTIES OF SGR A*: TOTAL INTENSITY MEASUREMENTS. Astrophysical Journal, Supplement Series, 2012, 203, 18.	7.7	92
8	Variability Timescale and Spectral Index of Sgr A* in the Near Infrared: Approximate Bayesian Computation Analysis of the Variability of the Closest Supermassive Black Hole. Astrophysical Journal, 2018, 863, 15.	4.5	83
9	DETECTION OF GALACTIC CENTER SOURCE G2 AT 3.8 μm DURING PERIAPSE PASSAGE. Astrophysical Journal Letters, 2014, 796, L8.	8.3	81
10	KECK OBSERVATIONS OF THE GALACTIC CENTER SOURCE G2: GAS CLOUD OR STAR?. Astrophysical Journal Letters, 2013, 773, L13.	8.3	77
11	Simultaneous NIR/sub-mm observation of flare emission fromÂSagittariusÂA*. Astronomy and Astrophysics, 2008, 492, 337-344.	5.1	69
12	Near-infrared proper motions and spectroscopy of infrared excess sources at the Galactic center. Astronomy and Astrophysics, 2013, 551, A18.	5.1	68
13	Millimeter to X-ray flares from SagittariusÂA*. Astronomy and Astrophysics, 2012, 537, A52.	5.1	67
14	Unprecedented Near-infrared Brightness and Variability of Sgr A*. Astrophysical Journal Letters, 2019, 882, L27.	8.3	58
15	A 600 Minute Near-Infrared Light Curve of Sagittarius A*. Astrophysical Journal, 2008, 688, L17-L20.	4.5	56
16	Near infrared flares of SagittariusÂA*. Astronomy and Astrophysics, 2010, 510, A3.	5.1	54
17	Investigating the Binarity of S0-2: Implications for Its Origins and Robustness as a Probe of the Laws of Gravity around a Supermassive Black Hole. Astrophysical Journal, 2018, 854, 12.	4.5	48
18	THE X-RAY FLUX DISTRIBUTION OF SAGITTARIUS A* AS SEEN BY <i>CHANDRA</i> . Astrophysical Journal, 2015, 799, 199.	4.5	47

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19	Modeling mm- to X-ray flare emission from Sagittarius A*. Astronomy and Astrophysics, 2009, 500, 935-946.	5.1	47
20	Millimeter Light Curves of Sagittarius A* Observed during the 2017 Event Horizon Telescope Campaign. Astrophysical Journal Letters, 2022, 930, L19.	8.3	43
21	The instrumental polarization of the Nasmyth focus polarimetric differential imager NAOS/CONICA (NACO) at the VLT. Astronomy and Astrophysics, 2011, 525, A130.	5.1	41
22	The S-star cluster at the center of the Milky Way. Astronomy and Astrophysics, 2012, 545, A70.	5.1	36
23	Polarized light from Sagittarius A* in the near-infrared <i>K</i> _s -band. Astronomy and Astrophysics, 2015, 576, A20.	5.1	35
24	Rapid Variability of Sgr A* across the Electromagnetic Spectrum. Astrophysical Journal, 2021, 917, 73.	4.5	35
25	<i>SPITZER</i> /IRAC OBSERVATIONS OF THE VARIABILITY OF Sgr A* AND THE OBJECT G2 AT 4.5 μm. Astrophysical Journal, 2014, 793, 120.	4.5	33
26	The extreme luminosity states of SagittariusÂA*. Astronomy and Astrophysics, 2010, 512, A2.	5.1	32
27	The Post-periapsis Evolution of Galactic Center Source G1: The Second Case of a Resolved Tidal Interaction with a Supermassive Black Hole. Astrophysical Journal, 2017, 847, 80.	4.5	30
28	Kinematic Structure of the Galactic Center S Cluster. Astrophysical Journal, 2020, 896, 100.	4.5	30
29	General relativistic MHD simulations of non-thermal flaring in Sagittarius A*. Monthly Notices of the Royal Astronomical Society, 2021, 507, 5281-5302.	4.4	30
30	Confusing Binaries: The Role of Stellar Binaries in Biasing Disk Properties in the Galactic Center. Astrophysical Journal Letters, 2018, 853, L24.	8.3	28
31	Constraining particle acceleration in Sgr A [⋆] with simultaneous GRAVITY, <i>Spitzer</i> , <i>NuSTAR</i> , and <i>Chandra</i> observations. Astronomy and Astrophysics, 2021, 654, A22.	5.1	28
32	Coordinated NIR/mm observations of flare emission from SagittariusÂA*. Astronomy and Astrophysics, 2010, 517, A46.	5.1	24
33	A FORMAL METHOD FOR IDENTIFYING DISTINCT STATES OF VARIABILITY IN TIME-VARYING SOURCES: SGR A* AS AN EXAMPLE. Astrophysical Journal, 2014, 791, 24.	4.5	24
34	Simultaneous X-Ray and Infrared Observations of Sagittarius A*'s Variability. Astrophysical Journal, 2019, 871, 161.	4.5	24
35	The Galactic Center: An Improved Astrometric Reference Frame for Stellar Orbits around the Supermassive Black Hole. Astrophysical Journal, 2019, 873, 65.	4.5	24
36	The near-infrared spectral index of Sagittarius A* derived from <i>K</i> s- and <i>H</i> -band flare statistics. Astronomy and Astrophysics, 2011, 532, A26.	5.1	23

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37	Improving Orbit Estimates for Incomplete Orbits with a New Approach to Priors: with Applications from Black Holes to Planets. Astronomical Journal, 2019, 158, 4.	4.7	22
38	Multiwavelength Light Curves of Two Remarkable Sagittarius A* Flares. Astrophysical Journal, 2018, 864, 58.	4.5	20
39	Characterizing and Mitigating Intraday Variability: Reconstructing Source Structure in Accreting Black Holes with mm-VLBI. Astrophysical Journal Letters, 2022, 930, L21.	8.3	20
40	Using infrared/X-ray flare statistics to probe the emission regions near the event horizon of Sgr A*. Monthly Notices of the Royal Astronomical Society, 2016, 461, 552-559.	4.4	19
41	EXTENDED SUBMILLIMETER EMISSION OF THE GALACTIC CENTER AND NEAR-INFRARED/SUBMILLIMETER VARIABILITY OF ITS SUPERMASSIVE BLACK HOLE. Astrophysical Journal, 2011, 738, 158.	4.5	18
42	An Adaptive Optics Survey of Stellar Variability at the Galactic Center. Astrophysical Journal, 2019, 871, 103.	4.5	18
43	Submillimeter and radio variability of Sagittarius A*. Astronomy and Astrophysics, 2017, 601, A80.	5.1	16
44	Second-scale Submillimeter Variability of Sagittarius A* during Flaring Activity of 2019: On the Origin of Bright Near-infrared Flares. Astrophysical Journal Letters, 2021, 920, L7.	8.3	14
45	Consistency of the Infrared Variability of SGR A* over 22 yr. Astrophysical Journal Letters, 2019, 882, L28.	8.3	11
46	The AIROPA software package: milestones for testing general relativity in the strong gravity regime with AO. Proceedings of SPIE, 2016, , .	0.8	8
47	Multiwavelength Variability of Sagittarius A* in 2019 July. Astrophysical Journal, 2022, 931, 7.	4.5	7
48	The Keplerian orbit of G2. Proceedings of the International Astronomical Union, 2013, 9, 264-268.	0.0	4
49	Off-axis PSF reconstruction for integral field spectrograph: instrumental aberrations and application to Keck/OSIRIS data. , 2018, , .		3
50	Flaremodel: An open-source Python package for one-zone numerical modelling of synchrotron sources. Astronomy and Astrophysics, 2022, 658, A111.	5.1	3
51	Observations of NIR polarized light from Sagittarius A*. Proceedings of the International Astronomical Union, 2013, 9, 283-287.	0.0	0
52	Constraining the Variability and Binary Fraction of Galactic Center Young Stars. Proceedings of the International Astronomical Union, 2016, 11, 237-238.	0.0	0