

Maria J Rioja

List of Publications by Year in descending order

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55
papers

933
citations

471509

17
h-index

477307

29
g-index

55
all docs

55
docs citations

55
times ranked

1427
citing authors

#	ARTICLE	IF	CITATIONS
1	Cygnus X-1 contains a 21â€“solar mass black holeâ€”Implications for massive star winds. <i>Science</i> , 2021, 371, 1046-1049.	12.6	138
2	ERRATIC JET WOBBLING IN THE BL LACERTAE OBJECT OJ287 REVEALED BY SIXTEEN YEARS OF 7 mm VLBA OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 747, 63.	4.5	69
3	HIGH-PRECISION ASTROMETRIC MILLIMETER VERY LONG BASELINE INTERFEROMETRY USING A NEW METHOD FOR ATMOSPHERIC CALIBRATION. <i>Astronomical Journal</i> , 2011, 141, 114.	4.7	60
4	VLBI observations of a complete sample of radio galaxies. 4: The radio galaxies NGC 2484, 3C 109, and 3C 382. <i>Astrophysical Journal</i> , 1994, 435, 116.	4.5	58
5	High CO depletion in southern infrared dark clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2342-2358.	4.4	56
6	Precise radio astrometry and new developments for the next generation of instruments. <i>Astronomy and Astrophysics Review</i> , 2020, 28, 1.	25.5	43
7	The VSOP 5 GHz Active Galactic Nucleus Survey. V. Imaging Results for the Remaining 140 Sources. <i>Astrophysical Journal, Supplement Series</i> , 2008, 175, 314-355.	7.7	42
8	VERIFICATION OF THE ASTROMETRIC PERFORMANCE OF THE KOREAN VLBI NETWORK, USING COMPARATIVE SFPR STUDIES WITH THE VLBA AT 14/7 mm. <i>Astronomical Journal</i> , 2014, 148, 84.	4.7	32
9	Magnetically regulated fragmentation of a massive, dense, and turbulent clump. <i>Astronomy and Astrophysics</i> , 2016, 593, L14.	5.1	31
10	THE POWER OF SIMULTANEOUS MULTIFREQUENCY OBSERVATIONS FOR mm-VLBI: ASTROMETRY UP TO 130 GHz WITH THE KVN. <i>Astronomical Journal</i> , 2015, 150, 202.	4.7	29
11	FIRST PARALLAX MEASUREMENTS TOWARD A 6.7 GHz METHANOL MASER WITH THE AUSTRALIAN LONG BASELINE ARRAYâ€”DISTANCE TO G 339.884â€”1.259.. <i>Astrophysical Journal</i> , 2015, 805, 129.	4.5	29
12	Giant radio galaxies â€” I. Intergalactic barometers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 200-224.	4.4	28
13	ASTROMETRICALLY REGISTERED SIMULTANEOUS OBSERVATIONS OF THE 22 GHz H ₂ O AND 43 GHz SiO MASERS TOWARD R LEONIS MINORIS USING KVN AND SOURCE/FREQUENCY PHASE REFERENCING. <i>Astronomical Journal</i> , 2014, 148, 97.	4.7	27
14	MultiView High Precision VLBI Astrometry at Low Frequencies. <i>Astronomical Journal</i> , 2017, 153, 105.	4.7	26
15	THE IMPACT OF FREQUENCY STANDARDS ON COHERENCE IN VLBI AT THE HIGHEST FREQUENCIES. <i>Astronomical Journal</i> , 2012, 144, 121.	4.7	22
16	Astronomical Verification of a Stabilized Frequency Reference Transfer System for the Square Kilometer Array. <i>Astronomical Journal</i> , 2017, 154, 9.	4.7	20
17	EXPLORATION OF SOURCE FREQUENCY PHASE REFERENCING TECHNIQUES FOR ASTROMETRY AND OBSERVATIONS OF WEAK SOURCES WITH HIGH FREQUENCY SPACE VERY LONG BASELINE INTERFEROMETRY. <i>Astronomical Journal</i> , 2011, 142, 157.	4.7	17
18	HIGH-PRECISION ASTROMETRIC MILLIMETER VERY LONG BASELINE INTERFEROMETRY USING A NEW METHOD FOR MULTI-FREQUENCY CALIBRATION. <i>Astrophysical Journal</i> , 2017, 834, 177.	4.5	17

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19	Very Long Baseline Interferometry with the SKA. , 2015, , .		17
20	VERA Observation of the W49NH ₂ O Maser Outburst in 2003 October. Publication of the Astronomical Society of Japan, 2004, 56, L15-L18.	2.5	16
21	Astrometrically registered maps of H ₂ O and SiO masers toward VX Sagittarii. Nature Communications, 2018, 9, 2534.	12.8	15
22	The Power of Simultaneous Multi-frequency Observations for mm-VLBI: Beyond Frequency Phase Transfer. Astronomical Journal, 2018, 155, 26.	4.7	14
23	Multi-Epoch VERA Observations of H ₂ O Masers in OH 43.8 $\hat{0}$.1. Publication of the Astronomical Society of Japan, 2005, 57, 595-603.	2.5	13
24	Astrometry of OH/IR Stars Using 1612 MHz Hydroxyl Masers. I. Annual Parallaxes of WX Psc and OH138.0+7.2. Astronomical Journal, 2017, 153, 119.	4.7	12
25	SiO MASERS AROUND WX PSC MAPPED WITH THE KVN AND VERA ARRAY (KaVA). Astrophysical Journal, 2016, 822, 3.	4.5	11
26	Relative Astrometry of the J = 1 $\hat{1}$ '0, ν = 1 and ν = 2 SiO Masers toward R Leonis Minoris Using VERA. Publication of the Astronomical Society of Japan, 2008, 60, 1031-1038.	2.5	9
27	THE APPLICATION OF MULTIVIEW METHODS FOR HIGH-PRECISION ASTROMETRIC SPACE VLBI AT LOW FREQUENCIES. Astronomical Journal, 2013, 145, 147.	4.7	8
28	Simultaneous VLBI Astrometry of H ₂ O and SiO Masers toward the Semiregular Variable R Crateris. Astrophysical Journal Letters, 2018, 866, L19.	8.3	8
29	MEASURING THE CORE SHIFT EFFECT IN AGN JETS WITH THE EXTENDED KOREAN VLBI NETWORK. Journal of the Korean Astronomical Society, 2015, 48, 277-284.	1.5	8
30	The science case for simultaneous mm-wavelength receivers in radio astronomy. New Astronomy Reviews, 2017, 79, 85-102.	12.8	7
31	Inverse Multiview. I. Multicalibrator Inverse Phase Referencing for Microarcsecond Very Long Baseline Interferometry Astrometry. Astrophysical Journal, 2022, 932, 52.	4.5	7
32	Registration of H ₂ O and SiO masers in the Calabash Nebula to confirm the planetary nebula paradigm. Monthly Notices of the Royal Astronomical Society, 2018, 476, 520-527.	4.4	6
33	Asymmetric distributions of H ₂ O and SiO masers towards V627 Cas. Monthly Notices of the Royal Astronomical Society, 2020, 495, 1284-1290.	4.4	6
34	The Power of (Near) Simultaneous Multi-Frequency Observations for mm-VLBI and Astrometry. Galaxies, 2017, 5, 9.	3.0	5
35	LEAP: an innovative direction-dependent ionospheric calibration scheme for low-frequency arrays. Monthly Notices of the Royal Astronomical Society, 2018, 478, 2337-2349.	4.4	5
36	Tracing the magnetic field and other properties of G351.417+0.645 at subarcsecond scales with the Long Baseline Array. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1670-1689.	4.4	4

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37	Earth-space VLBI of the quasar pair 1038+52A,B. <i>Advances in Space Research</i> , 2000, 26, 673-676.	2.6	3
38	High dynamic range imaging with the EVN. <i>New Astronomy Reviews</i> , 1997, 41, 291-295.	0.3	2
39	The KaVA and KVN pulsar project. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, 105.	2.5	2
40	Investigations on MultiView VLBI for SKA. , 2019, , .		2
41	EATING VLBI and KVN-Yebes observations of AGN jets. , 2019, , .		2
42	KVN SOURCE-FREQUENCY PHASE-REFERENCING OBSERVATION OF 3C 66A AND 3C 66B. <i>Publications of the Korean Astronomical Society</i> , 2015, 30, 629-631.	0.0	2
43	Non-closing errors in EVN data. <i>New Astronomy Reviews</i> , 1997, 41, 287-290.	0.3	1
44	KaVA ESTEMA project. <i>Journal of Physics: Conference Series</i> , 2016, 728, 072006.	0.4	1
45	A study on evolved stars by simultaneous observations of H ₂ O and SiO masers using KVN. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 359-364.	0.0	1
46	Multi-beam capabilities for high precision astrometry at low frequencies using VLBI. , 2011, , .		1
47	THE VLBI MONITORING PROJECT FOR 6.7 GHz METHANOL MASERS USING THE JVN/EAVN. <i>Publications of the Korean Astronomical Society</i> , 2015, 30, 645-647.	0.0	1
48	Studying Black Holes with VERA. <i>Progress of Theoretical Physics Supplement</i> , 2004, 155, 339-340.	0.1	0
49	Simultaneous multi frequency mm-VLBI on global baselines: The extended KVN. , 2016, , .		0
50	VLBI astrometry up to 130 GHz using multi frequency calibration. , 2016, , .		0
51	Magnetic Field Studies in BL Lacertae through Faraday Rotation and a Novel Astrometric Technique. <i>Galaxies</i> , 2017, 5, 97.	3.0	0
52	Registration of H ₂ O and SiO masers in the Calabash Nebula, to confirm the Planetary Nebula paradigm. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 373-376.	0.0	0
53	MultiView High Precision VLBI Astrometry at Low Frequencies. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 439-442.	0.0	0
54	LBA high resolution observations of ground- and excited-state OH masers towards G351.417+0.645. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 329-330.	0.0	0

#	ARTICLE	IF	CITATIONS
55	Demonstration of polarisation calibration with the LBA on Selected AGNs. Publications of the Astronomical Society of Australia, 2019, 36, .	3.4	0