

# 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	Inverse Multiview. I. Multicalibrator Inverse Phase Referencing for Microarcsecond Very Long Baseline Interferometry Astrometry. <i>Astrophysical Journal</i> , 2022, 932, 52.	4.5	7
2	Cygnus X-1 contains a 21 $\hat{a}$ €“solar mass black hole $\hat{a}$ €”Implications for massive star winds. <i>Science</i> , 2021, 371, 1046-1049.	12.6	138
3	Precise radio astrometry and new developments for the next generation of instruments. <i>Astronomy and Astrophysics Review</i> , 2020, 28, 1.	25.5	43
4	Asymmetric distributions of H <sub>2</sub> O and SiO masers towards V627 Cas. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 495, 1284-1290.	4.4	6
5	Demonstration of polarisation calibration with the LBA on Selected AGNs. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	0
6	Tracing the magnetic field and other properties of G351.417+0.645 at subarcsecond scales with the Long Baseline Array. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 1670-1689.	4.4	4
7	Investigations on MultiView VLBI for SKA. , 2019, , .		2
8	EATING VLBI and KVN-Yebes observations of AGN jets. , 2019, , .		2
9	Registration of H <sub>2</sub> O and SiO masers in the Calabash Nebula to confirm the planetary nebula paradigm. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 520-527.	4.4	6
10	The Power of Simultaneous Multi-frequency Observations for mm-VLBI: Beyond Frequency Phase Transfer. <i>Astronomical Journal</i> , 2018, 155, 26.	4.7	14
11	Simultaneous VLBI Astrometry of H <sub>2</sub> O and SiO Masers toward the Semiregular Variable R Crateris. <i>Astrophysical Journal Letters</i> , 2018, 866, L19.	8.3	8
12	LEAP: an innovative direction-dependent ionospheric calibration scheme for low-frequency arrays. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 2337-2349.	4.4	5
13	Astrometrically registered maps of H <sub>2</sub> O and SiO masers toward VX Sagittarii. <i>Nature Communications</i> , 2018, 9, 2534.	12.8	15
14	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
15	Astronomical Verification of a Stabilized Frequency Reference Transfer System for the Square Kilometer Array. <i>Astronomical Journal</i> , 2017, 154, 9.	4.7	20
16	MultiView High Precision VLBI Astrometry at Low Frequencies. <i>Astronomical Journal</i> , 2017, 153, 105.	4.7	26
17	Astrometry of OH/IR Stars Using 1612 MHz Hydroxyl Masers. I. Annual Parallaxes of WX Psc and OH138.0+7.2. <i>Astronomical Journal</i> , 2017, 153, 119.	4.7	12
18	The science case for simultaneous mm-wavelength receivers in radio astronomy. <i>New Astronomy Reviews</i> , 2017, 79, 85-102.	12.8	7

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19	Magnetic Field Studies in BL Lacertae through Faraday Rotation and a Novel Astrometric Technique. <i>Galaxies</i> , 2017, 5, 97.	3.0	0
20	The Power of (Near) Simultaneous Multi-Frequency Observations for mm-VLBI and Astrometry. <i>Galaxies</i> , 2017, 5, 9.	3.0	5
21	Registration of H <sub>2</sub> 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
22	A study on evolved stars by simultaneous observations of H <sub>2</sub> O and SiO masers using KVN. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 359-364.	0.0	1
23	MultiView High Precision VLBI Astrometry at Low Frequencies. <i>Proceedings of the International Astronomical Union</i> , 2017, 13, 439-442.	0.0	0
24	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
25	SiO MASERS AROUND WX PSC MAPPED WITH THE KVN AND VERA ARRAY (KaVA). <i>Astrophysical Journal</i> , 2016, 822, 3.	4.5	11
26	KaVA ESTEMA project. <i>Journal of Physics: Conference Series</i> , 2016, 728, 072006.	0.4	1
27	Simultaneous multi frequency mm-VLBI on global baselines: The extended KVN. , 2016, , .		0
28	VLBI astrometry up to 130 GHz using multi frequency calibration. , 2016, , .		0
29	Magnetically regulated fragmentation of a massive, dense, and turbulent clump. <i>Astronomy and Astrophysics</i> , 2016, 593, L14.	5.1	31
30	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
31	FIRST PARALLAX MEASUREMENTS TOWARD A 6.7 GHz METHANOL MASER WITH THE AUSTRALIAN LONG BASELINE ARRAY—DISTANCE TO G 339.884±1.259.. <i>Astrophysical Journal</i> , 2015, 805, 129.	4.5	29
32	Very Long Baseline Interferometry with the SKA. , 2015, , .		17
33	MEASURING THE CORE SHIFT EFFECT IN AGN JETS WITH THE EXTENDED KOREAN VLBI NETWORK. <i>Journal of the Korean Astronomical Society</i> , 2015, 48, 277-284.	1.5	8
34	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
35	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
36	ASTROMETRICALLY REGISTERED SIMULTANEOUS OBSERVATIONS OF THE 22 GHz H <sub>2</sub> 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

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37	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
38	The KaVA and KVN pulsar project. <i>Publication of the Astronomical Society of Japan</i> , 2014, 66, 105.	2.5	2
39	Giant radio galaxies as I. Intergalactic barometers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 200-224.	4.4	28
40	THE APPLICATION OF MULTIVIEW METHODS FOR HIGH-PRECISION ASTROMETRIC SPACE VLBI AT LOW FREQUENCIES. <i>Astronomical Journal</i> , 2013, 145, 147.	4.7	8
41	THE IMPACT OF FREQUENCY STANDARDS ON COHERENCE IN VLBI AT THE HIGHEST FREQUENCIES. <i>Astronomical Journal</i> , 2012, 144, 121.	4.7	22
42	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
43	High CO depletion in southern infrared dark clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 423, 2342-2358.	4.4	56
44	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
45	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
46	Multi-beam capabilities for high precision astrometry at low frequencies using VLBI. , 2011, , .		1
47	Relative Astrometry of the $J = 1 \rightarrow 0$ , $v = 1$ and $v = 2$ SiO Masers toward R Leonis Minoris Using VERA. <i>Publication of the Astronomical Society of Japan</i> , 2008, 60, 1031-1038.	2.5	9
48	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
49	Multi-Epoch VERA Observations of H <sub>2</sub> O Masers in OH 43.8 $\hat{v}$ 0.1. <i>Publication of the Astronomical Society of Japan</i> , 2005, 57, 595-603.	2.5	13
50	Studying Black Holes with VERA. <i>Progress of Theoretical Physics Supplement</i> , 2004, 155, 339-340.	0.1	0
51	VERA Observation of the W49NH <sub>2</sub> O Maser Outburst in 2003 October. <i>Publication of the Astronomical Society of Japan</i> , 2004, 56, L15-L18.	2.5	16
52	Earth-space VLBI of the quasar pair 1038+52A,B. <i>Advances in Space Research</i> , 2000, 26, 673-676.	2.6	3
53	Non-closing errors in EVN data. <i>New Astronomy Reviews</i> , 1997, 41, 287-290.	0.3	1
54	High dynamic range imaging with the EVN. <i>New Astronomy Reviews</i> , 1997, 41, 291-295.	0.3	2

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55	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