

# Joseph D Romano

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9534185/publications.pdf>

Version: 2024-02-01

20  
papers

1,348  
citations

623734

14  
h-index

794594

19  
g-index

20  
all docs

20  
docs citations

20  
times ranked

1353  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detecting a stochastic background of gravitational radiation: Signal processing strategies and sensitivities. <i>Physical Review D</i> , 1999, 59, .	4.7	511
2	Detection methods for stochastic gravitational-wave backgrounds: a unified treatment. <i>Living Reviews in Relativity</i> , 2017, 20, 2.	26.7	296
3	The stochastic background: scaling laws and time to detection for pulsar timing arrays. <i>Classical and Quantum Gravity</i> , 2013, 30, 224015.	4.0	143
4	Mapping gravitational-wave backgrounds using methods from CMB analysis: Application to pulsar timing arrays. <i>Physical Review D</i> , 2014, 90, .	4.7	70
5	Time-domain implementation of the optimal cross-correlation statistic for stochastic gravitational-wave background searches in pulsar timing data. <i>Physical Review D</i> , 2015, 91, .	4.7	53
6	Realistic sensitivity curves for pulsar timing arrays. <i>Physical Review D</i> , 2019, 100, .	4.7	42
7	Estimating the angular power spectrum of the gravitational-wave background in the presence of shot noise. <i>Physical Review D</i> , 2019, 100, .	4.7	34
8	The NANOGrav 12.5-year Data Set: Search for Non-Einsteinian Polarization Modes in the Gravitational-wave Background. <i>Astrophysical Journal Letters</i> , 2021, 923, L22.	8.3	30
9	Robust statistics for deterministic and stochastic gravitational waves in non-Gaussian noise. II. Bayesian analyses. <i>Physical Review D</i> , 2003, 67, .	4.7	26
10	Phase-coherent mapping of gravitational-wave backgrounds using ground-based laser interferometers. <i>Physical Review D</i> , 2015, 92, .	4.7	25
11	Common-spectrum process versus cross-correlation for gravitational-wave searches using pulsar timing arrays. <i>Physical Review D</i> , 2021, 103, .	4.7	24
12	Understanding the gravitational-wave Hellings and Downs curve for pulsar timing arrays in terms of sound and electromagnetic waves. <i>American Journal of Physics</i> , 2015, 83, 635-645.	0.7	20
13	Model Dependence of Bayesian Gravitational-wave Background Statistics for Pulsar Timing Arrays. <i>Astrophysical Journal Letters</i> , 2020, 905, L6.	8.3	20
14	Hasasia: A Python package for Pulsar Timing Array Sensitivity Curves. <i>Journal of Open Source Software</i> , 2019, 4, 1775.	4.6	18
15	Frequentist versus Bayesian analyses: Cross-correlation as an approximate sufficient statistic for LIGO-Virgo stochastic background searches. <i>Physical Review D</i> , 2021, 103, .	4.7	13
16	Mapping the gravitational-wave sky with LISA: a Bayesian spherical harmonic approach. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5451-5462.	4.4	13
17	Comparison of maximum-likelihood mapping methods for gravitational-wave backgrounds. <i>Physical Review D</i> , 2022, 105, .	4.7	7
18	An acoustical analogue of a galactic-scale gravitational-wave detector. <i>American Journal of Physics</i> , 2018, 86, 755-764.	0.7	2

#	ARTICLE	IF	CITATIONS
19	A simple graphical method for calculating the standing wave frequencies on a rectangular membrane. American Journal of Physics, 2020, 88, 605-611.	0.7	1
20	10.1119/10.0001299.1., 2020, , .		0