

David J. Nice  
Curriculum Vitae and Publications

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**Positions Held:**

Lafayette College  
2019– Professor, Physics  
2016– Department Head, Physics  
2010–2019 Associate Professor, Physics  
Bryn Mawr College  
2005–2010 Visiting Assistant Professor, Physics  
Princeton University  
1997–2005 Assistant Professor, Physics  
1996–1997 Lecturer, Physics  
National Radio Astronomy Observatory  
1993–1996 Jansky Postdoctoral Fellow  
University of Virginia  
1995 Lecturer, Astronomy  
Princeton University  
1992–1993 Research Associate, Physics

**Education:**

1992 Ph.D., Physics, Princeton University  
1989 M.A., Physics, Princeton University  
1987 B.S. with Honor, Physics, California Institute of Technology

**Research Interests:**

Radio telescope observations of pulsars  
Tests of relativistic gravity  
Binary star evolution  
Characteristics and physics of neutron stars  
Radio telescope instrumentation, software, and data analysis  
Gravitational waves at nanohertz frequencies (NANOGrav collaboration)

### **Selected Service Work:**

- 2021– Member, Management Team, NANOGrav collaboration
- 2020–2021 Member, Faculty Academic Policy Committee, Lafayette Coll.
- 2011–2020 Chair, Pulsar Timing Working Group, NANOGrav collaboration
- 2018–2019 Chair, Academic Research Committee, Lafayette Coll.
- 2016–2019 Member, Academic Research Committee, Lafayette Coll.
- 2019 Organizer, NANOGrav Timing Working Group Workshop (held at Lafayette)
- 2017 Organizer, NANOGrav Collaboration Workshop (held at Lafayette)
- 2017 Honors Examiner, Oberlin College Physics Department
- 2014–2015 Chair, Information Technology & Library Committee, Lafayette Coll.
- 2013–2015 Member, Information Technology & Library Committee, Lafayette Coll.
- 2014 Chair, Scientific Org. Committee, Int'l Pulsar Timing Array meeting, Banff
- 2011–2012 Chair, Ad Hoc Publication Policy Group, NANOGrav collaboration
- 2011 Special Session Organizer, American Astronomical Society Meeting, Seattle
- 2008–2011 Chair, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
- 2004–2011 Member, Student Observing Support Committee, Nat'l Radio Astronomy Obs.
- 2008 Session Organizer, Texas Symposium on Relativistic Astrophysics, Vancouver
- 2008 Scientific Organizing Committee, Int'l Pulsar Timing Array Meeting, Arecibo, PR
- 2005–2007 Member, Users Committee, National Astronomy and Ionosphere Center
- 2003–2005 Member, Committee on Undergraduate Life, Princeton University
- 2003 Organizer, Baseband Recorder Workshop, IAU Symposium 218, Sydney
- 2002 Organizer, Radio Pulsars Conference, Chania, Crete
- 2001 Chair, Users Committee, National Radio Astronomy Observatory
- 2001 Honors Examiner, Oberlin College Physics Department
- 1998–2004 Academic Adviser & Faculty Fellow, Mathey College, Princeton University
- 1998–2001 Member, Users Committee, National Radio Astronomy Observatory

# Publications

## Books Edited:

### 1. **Radio Pulsars**

M. Bailes, D. J. Nice, and S. E. Thorsett, editors  
2003 (San Francisco: Astronomical Society of the Pacific)  
ISBN: 1-58381-151-6

## Peer-Reviewed Publications:

### 1. **The NANOGrav 12.5-year Data Set: Monitoring Interstellar Scattering Delays**

J. E. Turner *et al.*  
*Astrophysical Journal*, Accepted April 2021  
arXiv:2012.09884

### 2. **Refined Mass and Geometric Measurements of the High-Mass PSR J0740+6620**

E. Fonseca *et al.*  
*Astrophysical Journal Letters*, 915, L12 (2021)  
arXiv:2104.00880; doi:10.3847/2041-8213/ac03b8

### 3. **The NANOGrav 11yr Data Set: Limits on Supermassive Black Hole Binaries in Galaxies within 500Mpc**

Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 914, 121 (2021)  
arXiv:2101.02716, doi:10.3847/1538-4357/abfcd3

### 4. **Astrophysics Milestones for Pulsar Timing Array Gravitational-wave Detection**

N. S. Pol *et al.*  
*Astrophysical Journal Letters*, 911, L34, (2021)  
arXiv:2010.11950, doi:10.3847/2041-8213/abf2c9

### 5. **The NANOGrav 12.5-year Data Set: Observations and Narrowband Timing of 47 Millisecond Pulsars**

M. F. Alam *et al.*  
*Astrophysical Journal Supplement Series*, 252, 4 (2021)  
arXiv:2005.06490, doi:10.3847/1538-4365/abc6a0

### 6. **The NANOGrav 12.5-year Data Set: Wideband Timing of 47 Millisecond Pulsars**

M. F. Alam *et al.*  
*Astrophysical Journal Supplement Series*, 252, 5 (2021)  
arXiv:2005.06495, doi:10.3847/1538-4365/abc6a1

### 7. **The NANOGrav 12.5-year Data Set: Search for an Isotropic Stochastic Gravitational-Wave Background**

Z. Arzoumanian *et al.*  
*Astrophysical Journal Letters*, 905, L34 (2020)  
arXiv:2009.04496, doi:10.3847/2041-8213/abd401

### 8. **Multi-Messenger Gravitational Wave Searches with Pulsar Timing Arrays: Application to 3C66B Using the NANOGrav 11-year Data Set**

Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 900, 102 (2020)  
arXiv:2005.07123, doi:10.3847/1538-4357/ababa1

### 9. **Modeling the Uncertainties of Solar System Ephemerides for Robust Gravitational-wave Searches with Pulsar-timing Arrays**

M. Vallisneri *et al.*  
*Astrophysical Journal*, 893, 112 (2020)  
arXiv:2001.00595, doi:10.3847/1538-4357/ab7b67

10. **The NANOGrav 11-year Data Set: Constraints on Planetary Masses Around 45 Millisecond Pulsars**  
E. A. Behrens *et al.*  
*Astrophysical Journal Letters*, 893, L8 (2020)  
arXiv:1912.00482, doi:10.3847/2041-8213/ab8121
11. **The NANOGrav 11-Year Data Set: Evolution of Gravitational Wave Background Statistics**  
J. Hazboun *et al.*  
*Astrophysical Journal*, 890, 108 (2020)  
arXiv:1909.08644, doi:10.3847/1538-4357/ab68db
12. **The NANOGrav 11-Year Data Set: Limits on Gravitational Wave Memory**  
K. Aggarwal *et al.*  
*Astrophysical Journal*, 889, 38 (2020)  
arXiv:1911.08488, doi:10.3847/1538-4357/ab6083
13. **A very massive neutron star: relativistic Shapiro delay measurements of PSR J0740+6620**  
H. T. Cromartie *et al.*  
*Nature Astronomy*, 4, 72 (2020)  
arXiv:1904.06759, doi:10.1038/s41550-019-0880-2
14. **A Pulsar-based Timescale from the International Pulsar Timing Array**  
G. Hobbs *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 491, 5951 (2020)  
arXiv:1910.13628, doi:10.1093/mnras/stz3071
15. **The International Pulsar Timing Array: Second Data Release**  
B. B. P. Perera *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 490, 4666 (2019)  
arXiv:1909.04534, doi:10.1093/mnras/stz2857
16. **The NANOGrav 11-Year Data Set: Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries**  
K. Aggarwal *et al.*  
*Astrophysical Journal*, 880, 116 (2019)  
arXiv:1812.11585, doi:10.3847/1538-4357/ab2236
17. **High-Precision X-ray Timing of Three Millisecond Pulsars with NICER: Stability Estimates and Comparison with Radio**  
J. S. Deneva *et al.*  
*Astrophysical Journal*, 874, 160 (2019)  
arXiv:1902.07130, doi:10.3847/1538-4357/ab0966
18. **The NANOGrav 12.5-Year Data Set: The Frequency Dependence of Pulse Jitter in Precision Millisecond Pulsars**  
M. Lam *et al.*  
*Astrophysical Journal*, 872, 193 (2019)  
arXiv:1809.03058, doi:10.3847/1538-4357/ab01cd
19. **The NANOGrav 11-year Data Set: Solar Wind Sounding Through Pulsar Timing**  
D. R. Madison *et al.*  
*Astrophysical Journal*, 872, 150 (2019)  
arXiv:1808.07078, doi:10.3847/1538-4357/ab01fd

20. **PSR J2234+0611: A New Laboratory for Stellar Evolution**  
K. Stovall *et al.*  
*Astrophysical Journal*, 870, 74 (2019)  
arXiv:1809.05064, doi:10.3847/1538-4357/aaf37d
21. **Tests of Gravitational Symmetries with Pulsar Binary J1713+0747**  
W. W. Zhu *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 482, 3249 (2019)  
arXiv:1802.09206, doi:10.1093/mnras/sty2905
22. **Studying the Solar System with the International Pulsar Timing Array**  
R. N. Caballero *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 481, 5501 (2018)  
arXiv:1808.07078, doi:10.1093/mnras/sty2632
23. **The NANOGrav 11-year Data Set: Pulse Profile Variability**  
P. R. Brook *et al.*  
*Astrophysical Journal*, 868, 122 (2018)  
arXiv:1810.08269, doi:10.3847/1538-4357/aae9e3
24. **A VLBI Distance and Transverse Velocity for PSR B1913+16**  
A. T. Deller, J. M. Weisberg, D. J. Nice, and S. Chatterjee  
*Astrophysical Journal*, 862, 139 (2018)  
arXiv:1806.10265, doi:10.3847/1538-4357/aacf95
25. **The NANOGrav Eleven-Year Data Set: Polarimetry and Pulse Microcomponents**  
P. Gentile *et al.*  
*Astrophysical Journal*, 862, 47 (2018)  
arXiv:1807.00708, doi:10.3847/1538-4357/aac9c9
26. **A Second Chromatic Timing Event of Interstellar Origin toward PSR J1713+0747**  
M. Lam *et al.*  
*Astrophysical Journal*, 861, 132 (2018)  
arXiv:1712.03651, doi:10.3847/1538-4357/aac770
27. **The NANOGrav 11-Year Data Set: Pulsar-Timing Constraints on the Stochastic Gravitational-Wave Background**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 859, 47 (2018)  
arXiv:1801.02617, doi:10.3847/1538-4357/aabd3b
28. **The NANOGrav 11-Year Data Set: High-Precision Timing of 45 Millisecond Pulsars**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal Supplement Series*, 235, 37 (2018)  
arXiv:1801.01837, doi:10.3847/1538-4365/aab5b0
29. **The NANOGrav Nine-Year Data Set: Measurement and Interpretation of Variations in Dispersion Measures**  
M. Jones *et al.*  
*Astrophysical Journal*, 841, 125 (2017)  
arXiv:1612.03187, doi:10.3847/1538-4357/aa73df
30. **The NANOGrav Nine-Year Data Set: Excess Noise in Millisecond Pulsar Arrival Times**  
M. Lam *et al.*  
*Astrophysical Journal*, 834, 35 (2017)  
arXiv:1610.01731, doi:10.3847/1538-4357/834/1/35

31. **The NANOGrav Nine-Year Data Set: Mass and Geometric Measurements of Binary Millisecond Pulsars**  
E. Fonseca *et al.*  
*Astrophysical Journal*, 832, 167 (2016)  
arXiv:1603.00545, doi:10.3847/0004-637X/832/2/167
32. **PSR J1024–0719: A Millisecond Pulsar in an Unusual Long-Period Orbit**  
D. Kaplan *et al.*  
*Astrophysical Journal*, 826, 86 (2016)  
arXiv:1604.00131, doi:10.3847/0004-637X/826/1/86
33. **The NANOGrav Nine-Year Data Set: Limits on the Isotropic Stochastic Gravitational Wave Background**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 821, 13 (2016)  
arXiv:1508.03024, doi:10.3847/0004-637X/821/1/13
34. **From Spin-Noise to Systematics: Stochastic Processes in the First International Pulsar Timing Array Data Release**  
L. Lentati *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 458, 2161 (2016)  
arXiv:1602.05570, doi:10.1093/mnras/stw395
35. **The International Pulsar Timing Array: First Data Release**  
J. P. W. Verbiest *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 458, 1267 (2016)  
arXiv:1602.03640, doi: 10.1093/mnras/stw347
36. **The NANOGrav Nine-Year Data Set: Noise Budget for Pulsar Arrival Times on Intraday Timescales**  
M. Lam *et al.*  
*Astrophysical Journal*, 819, 155 (2016)  
arXiv:1512.08326, doi:10.3847/0004-637X/819/2/155
37. **The NANOGrav Nine-Year Data Set: Monitoring Interstellar Scattering Delays**  
L. Levin *et al.*  
*Astrophysical Journal*, 818, 166 (2016)  
arXiv:1601.04490, doi:10.3847/0004-637X/818/2/166
38. **The NANOGrav Nine-Year Data Set: Astrometric Measurements of 37 Millisecond Pulsars**  
A. Matthews *et al.*  
*Astrophysical Journal*, 818, 92 (2016)  
arXiv:1509.08982, doi:10.3847/0004-637X/818/1/92
39. **The NANOGrav Nine-Year Data Set: Observations, Arrival Time Measurements, and Analysis of 37 Millisecond Pulsars**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 813, 65 (2015)  
arXiv:1505.07540, doi:10.1088/0004-637X/813/1/65
40. **NANOGrav Constraints on Gravitational Wave Bursts with Memory**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 810, 150 (2015)  
arXiv:1501.05343, doi:10.1088/0004-637X/810/2/150

41. **Testing Theories of Gravitation Using 21-Year Timing of Pulsar Binary J1713+0747**  
W. W. Zhu *et al.*  
*Astrophysical Journal*, 809, 41 (2015)  
arXiv:1504.00662, doi:10.1088/0004-637X/809/1/41
42. **The Binary Companion of Young, Relativistic Pulsar J1906+0746**  
J. van Leeuwen *et al.*  
*Astrophysical Journal*, 798, 118 (2015)  
arXiv:1411.1518, doi:10.1088/0004-637X/798/2/118
43. **NANOGrav Limits on Gravitational Waves from Individual Supermassive Black Hole Binaries in Circular Orbits**  
Z. Arzoumanian *et al.*  
*Astrophysical Journal*, 794, 141 (2014)  
arXiv:1404.1267, doi:10.1088/0004-637X/794/2/141
44. **Arecibo Pulsar Survey Using ALFA. III. Precursor Survey and Population Synthesis**  
J. K. Swiggum *et al.*  
*Astrophysical Journal*, 787, 137 (2014)  
arXiv:1405.7953, doi:10.1088/0004-637X/787/2/137
45. **Timing and Interstellar Scattering of 35 Distant Pulsars Discovered in the PALFA Survey**  
D. J. Nice *et al.*  
*Astrophysical Journal*, 772, 50 (2013)  
arXiv:1304.7370, doi:10.1088/0004-637X/772/1/50
46. **Limits on the Stochastic Gravitational Wave Background from the North American Nanohertz Observatory for Gravitational Waves**  
P. Demorest *et al.*  
*Astrophysical Journal*, 762, 94 (2013)  
arXiv:1201.6641, doi:10.1088/0004-637X/762/2/94
47. **Time Correlated Structure in Spin Fluctuations in Pulsars**  
S. Price, B. Link, S. N. Shore, & D. J. Nice  
*Monthly Notices of the Royal Astronomical Society*, 426, 2507 (2012)  
arXiv:1208.0807, doi:10.1111/j.1365-2966.2012.21863.x
48. **Four Highly Dispersed Millisecond Pulsars Discovered in the Arecibo PALFA Galactic Plane Survey**  
F. Crawford *et al.*  
*Astrophysical Journal*, 757, 90 (2012)  
arXiv:1208.1273, doi:10.1088/0004-637X/757/1/90
49. **Two Millisecond Pulsars Discovered by the PALFA Survey and a Shapiro Delay Measurement**  
J. S. Deneva *et al.*  
*Astrophysical Journal*, 757, 89 (2012)  
arXiv:1208.1228, doi:10.1088/0004-637X/757/1/89
50. **High-Precision Timing of Five Millisecond Pulsars: Space Velocities, Binary Evolution, and Equivalence Principles**  
M. E. Gonzalez, I. H. Stairs, R. D. Ferdman, P. C. C. Freire, D. J. Nice,  
P. B. Demorest, S. M. Ransom, R. N. Manchester, G. Hobbs, and A. G. Lyne  
*Astrophysical Journal*, 743, 102 (2011)  
arXiv:1109.5638, doi:10.1088/0004-637X/743/2/102

51. **Arecibo PALFA Survey and Einstein@Home: Binary Pulsar Discovery by Volunteer Computing**  
B. Knispel *et al.*  
*Astrophysical Journal (Letters)*, 732, L1-L5 (2011)  
arXiv:1102.5340, doi:10.1088/2041-8205/732/1/L1
52. **On the Nature and Evolution of the Unique Binary Pulsar PSR J1903+0327**  
P. C. C. Freire *et al.*  
*Monthly Notices of the Royal Astronomical Society*, 412, 2763-2780 (2011)  
arXiv:1011.5809, doi:10.1111/j.1365-2966.2010.18109.x
53. **Timing Measurements of the Relativistic Binary Pulsar PSR B1913+16**  
J. M. Weisberg, D. J. Nice, and J. H. Taylor  
*Astrophysical Journal*, 722, 1030-1034 (2010)  
arXiv: 1011.0718, doi:10.1088/0004-637X/722/2/1030
54. **Pulsar Discovery by Global Volunteer Computing**  
B. Knispel *et al.*  
*Science*, 329, 1305 (2010)  
arXiv:1008.2172, doi:10.1126/science.1195253
55. **Measuring the Mass of Solar System Planets Using Pulsar Timing**  
D. J. Champion *et al.*  
*Astrophysical Journal (Letters)*, 720, L201-L205 (2010)  
arXiv:1008.3607, doi:10.1088/2041-8205/720/2/L201
56. **A Precise Mass Measurement of the Intermediate-Mass Binary Pulsar PSR J1802-2124**  
R. D. Ferdman, I. H. Stairs, M. Kramer, M. A. McLaughlin, D. R. Lorimer, D. J. Nice, R. N. Manchester, G. Hobbs, A. G. Lyne, F. Camilo, A. Possenti, P. B. Demorest, I. Cognard, G. Desvignes, G. Theureau, A. Faulkner, and D. C. Backer  
*Astrophysical Journal*, 711, 764-771 (2010)  
arXiv:1002.0514, doi:10.1088/0004-637X/711/2/764
57. **Arecibo Pulsar Survey Using ALFA. Probing Radio Pulsar Intermittency and Transients**  
J. S. Deneva *et al.*  
*Astrophysical Journal*, 703, 2259-2274 (2009)  
arXiv:0811.2532, doi:10.1088/0004-637X/703/2/2259
58. **Multi-Telescope Timing of PSR J1518+4904**  
G. H. Janssen, B. W. Stappers, M. Kramer, D. J. Nice, A. Jessner, I. Cognard, and M. Purver  
*Astronomy and Astrophysics*, 490, 753 (2008)  
arXiv: 0808.2292, doi:10.1051/0004-6361:200810076
59. **PSR J1856+0245: Arecibo Discovery of a Young, Energetic Pulsar Coincident with the TeV  $\gamma$ -Ray Source HESS J1857+026**  
J. W. T. Hessels *et al.*  
*Astrophysical Journal (Letters)*, 682, L41 (2008)  
arXiv:0806.1200, doi:10.1086/590908
60. **An Eccentric Binary Millisecond Pulsar in the Galactic Plane**  
D. J. Champion *et al.*  
*Science*, 320, 1309 (2008)  
arXiv:0805.2396, doi:10.1126/science.1157580

61. **The Parallax and Proper Motion of PSR J0030+0451**  
A. N. Lommen, R. A. Kipphorn, D. J. Nice, E. M. Splaver, I. H. Stairs, and  
D. C. Backer  
*Astrophysical Journal*, 642, 1012 (2006)  
arXiv:astro-ph/0601521, doi:10.1086/501067
62. **Arecibo Pulsar Survey Using ALFA. II. The Young, Highly Relativistic Binary Pulsar J1906+0746**  
D. R. Lorimer *et al.*  
*Astrophysical Journal*, 640, 428 (2006)  
arXiv:astro-ph/0511523, doi:10.1086/499918
63. **Arecibo Pulsar Survey Using ALFA. I. Survey Strategy and First Discoveries**  
J. M. Cordes *et al.*  
*Astrophysical Journal*, 637, 446 (2006)  
arXiv:astro-ph/0509732, doi:10.1086/498335
64. **A 2.1 Solar Mass Pulsar Measured by Relativistic Orbital Decay**  
D. J. Nice, E. M. Splaver, I. H. Stairs, O. Löhmer, A. Jessner, M. Kramer, and  
J. M. Cordes  
*Astrophysical Journal*, 634, 1242 (2005)  
arXiv:astro-ph/0508050, doi:10.1086/497109
65. **The Millisecond Pulsars in NGC 6760**  
P. C. Freire, J. W. T. Hessels, D. J. Nice, S. M. Ransom, D. R. Lorimer, and  
I. H. Stairs  
*Astrophysical Journal*, 621, 959 (2005)  
arXiv:astro-ph/0411160, doi:10.1086/427748
66. **Masses, Parallax, and Relativistic Timing of the PSR J1713+0747 Binary System**  
E. M. Splaver, D. J. Nice, I. H. Stairs, A. N. Lommen, and D. C. Backer  
*Astrophysical Journal*, 620, 405 (2005)  
arXiv:astro-ph/0410488, doi:10.1086/426804
67. **Multifrequency Observations of Radio Pulse Broadening and Constraints on Interstellar Electron Density Microstructure**  
N. D. R. Bhat, J. M. Cordes, F. Camilo, D. J. Nice, and D. R. Lorimer  
*Astrophysical Journal*, 605, 759 (2004)  
arXiv:astro-ph/0401067, doi:10.1086/382680
68. **Probing the Masses of the PSR J0621+1002 Binary System Through Relativistic Apical Motion**  
E. M. Splaver, D. J. Nice, Z. Arzoumanian, F. Camilo, A. G. Lyne, and I. H. Stairs  
*Astrophysical Journal*, 581, 509 (2002)  
arXiv:astro-ph/0208281, doi:10.1086/344202
69. **On the Mass and Inclination of the PSR J2019+2425 Binary System**  
D. J. Nice, E. M. Splaver, and I. H. Stairs  
*Astrophysical Journal*, 549, 516 (2001)  
arXiv:astro-ph/0010489, doi:10.1086/319079
70. **Five Years of Flux Density Monitoring: Refractive Scintillation and the Interstellar Medium**  
D. R. Stinebring, T. V. Smirnova, T. H. Hankins, J. S. Hoves, V. M. Kaspi,  
J. C. Kempner, E. Myers, and D. J. Nice  
*Astrophysical Journal*, 539, 300 (2000)  
doi:10.1086/309201

71. **A Baseband Recorder for Radio Pulsar Observations**  
I. H. Stairs, E. M. Splaver, S. E. Thorsett, D. J. Nice, and J. H. Taylor  
*Monthly Notices of the Royal Astronomical Society*, 314, 459 (2000)  
arXiv:astro-ph/9912272, doi:10.1046/j.1365-8711.2000.03306.x
72. **Timing Observations of Four Millisecond Pulsars with the Arecibo and Effelsberg Radiotelescopes**  
A. Wolszczan, O. Doroshenko, M. Konacki, M. Kramer, A. Jessner, R. Wielebinski, D. J. Nice, and J. H. Taylor  
*Astrophysical Journal*, 528, 907 (2000)  
doi:10.1086/308206
73. **Profile Instabilities of the Millisecond Pulsar PSR J1022+1001**  
M. Kramer, K. M. Xilouris, F. Camilo, D. J. Nice, D. C. Backer, C. Lange, D. R. Lorimer, O. Doroshenko, and S. Sallmen  
*Astrophysical Journal*, 520, 324 (1999)  
arXiv:astro-ph/9903048, doi:10.1086/307449
74. **Radio Pulses along the Galactic Plane**  
D. J. Nice  
*Astrophysical Journal*, 513, 927 (1999)  
arXiv:astro-ph/9809095, doi:10.1086/306898
75. **Measurement of Relativistic Orbit Decay in the PSR B1534+12 Binary System**  
I. H. Stairs, Z. Arzoumanian, F. Camilo, A. G. Lyne, D. J. Nice, J. H. Taylor, S. E. Thorsett, and A. Wolszczan  
*Astrophysical Journal*, 505, 352 (1998)  
arXiv:astro-ph/9712296, doi:10.1086/306151
76. **A Survey of EGRET Sources for Pulsed Radio Emission**  
D. J. Nice and R. W. Sayer  
*Astrophysical Journal*, 476, 261 (1997)  
doi:10.1086/303595
77. **The Green Bank Northern Sky Survey for Fast Pulsars**  
R. W. Sayer, D. J. Nice, and J. H. Taylor  
*Astrophysical Journal*, 474, 426 (1997)  
doi:10.1086/303446
78. **A Survey for Millisecond Pulsars**  
P. S. Ray, S. E. Thorsett, F. A. Jenet, M. H. van Kerkwijk, S. R. Kulkarni, T. A. Prince, J. S. Sandhu, and D. J. Nice  
*Astrophysical Journal*, 470, 1103 (1996)  
doi:10.1086/177934
79. **Princeton-Arecibo Declination-Strip Survey for Millisecond Pulsars: Part I**  
F. Camilo, D. J. Nice, J. A. Shrauner, and J. H. Taylor  
*Astrophysical Journal*, 469, 819 (1996)  
doi:10.1086/177829
80. **PSR J1518+4904: A Mildly Relativistic Binary Pulsar System**  
D. J. Nice, R. W. Sayer, and J. H. Taylor  
*Astrophysical Journal (Letters)*, 466, L87 (1996)  
arXiv:astro-ph/9605122, doi:10.1086/310178
81. **EGRET High Energy Gamma-Ray Pulsar Studies III: A Survey**  
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