

Publications

D. R. Wilkins

4081 citations, 863 as first author, *h*-index 38, as of October 2023

First author publications

1. *Wavelet spectral timing: X-ray reverberation from a dynamic black hole corona hidden beneath ultrafast outflows*
D. R. Wilkins
Monthly Notices of the Royal Astronomical Society, 526, 3441 (2023)
2. *Reducing the background in X-ray imaging detectors via machine learning*
D. R. Wilkins, S. W. Allen, E. D. Miller, M. Bautz, T. Chattopadhyay, R. Foster, C. E. Grant, S. Hermann
+4 co-authors
Space Telescopes and Instrumentation 2022: Ultraviolet to Gamma Ray, 12181, 121816S (2022)
3. *Acceleration and cooling of the corona during X-ray flares from the Seyfert galaxy I Zw 1*
D. R. Wilkins, L. C. Gallo, E. Costantini, W. N. Brandt, R. D. Blandford
Monthly Notices of the Royal Astronomical Society, 512, 761 (2022) – 11 citations
4. *Light bending and X-ray echoes from behind a supermassive black hole*
D. R. Wilkins, L. C. Gallo, E. Costantini, W. N. Brandt, R. D. Blandford
Nature, 595, 657 (2021) – 23 citations
5. *Identifying charged particle background events in X-ray imaging detectors with novel machine learning algorithms*
D. R. Wilkins, S. W. Allen, E. D. Miller, M. Bautz, T. Chattopadhyay, S. Fort, C. E. Grant, S. Herrmann
+3 co-authors
Space Telescopes and Instrumentation 2020: Ultraviolet to Gamma Ray, 11444, 114442O (2020) – 2 citations
6. *Returning radiation in strong gravity around black holes: Reverberation from the accretion disc*
D. R. Wilkins, J. A. García, T. Dauser, A. C. Fabian
Monthly Notices of the Royal Astronomical Society, 498, 3302 (2020) – 19 citations
7. *Venturing beyond the ISCO: Detecting X-ray emission from the plunging regions around black holes*
D. R. Wilkins, C. S. Reynolds, A. C. Fabian
Monthly Notices of the Royal Astronomical Society, 493, 5532 (2020) – 19 citations
8. *Low frequency X-ray timing with Gaussian processes and reverberation in the radio-loud AGN 3C 120*
D. R. Wilkins
Monthly Notices of the Royal Astronomical Society, 489, 1957 (2019) – 14 citations
9. *On the illumination of neutron star accretion discs*
D. R. Wilkins
Monthly Notices of the Royal Astronomical Society, 475, 748 (2018) – 8 citations
10. *Revealing structure and evolution within the corona of the Seyfert galaxy I Zw 1*
D. R. Wilkins, L. C. Gallo, C. V. Silva, E. Costantini, W. N. Brandt, G. A. Kriss
Monthly Notices of the Royal Astronomical Society, 471, 4436 (2017) – 33 citations

11. *Towards modelling X-ray reverberation in AGN: Piecing together the extended corona*
D. R. Wilkins, E. M. Cackett, A. C. Fabian, C. S. Reynolds
 Monthly Notices of the Royal Astronomical Society, 458, 200 (2016) – 68 citations
12. *Flaring from the supermassive black hole in Mrk 335 studied with Swift and NuSTAR*
D. R. Wilkins, L. C. Gallo, D. Grupe, K. Bonson, S. Komossa, A. C. Fabian
 Monthly Notices of the Royal Astronomical Society, 454, 4440 (2015) – 65 citations
13. *Driving Extreme Variability - Measuring the evolving coronae and evidence for jet launching in AGN*
D. R. Wilkins
 The Extremes of Black Hole Accretion, 66 (2015)
14. *Driving extreme variability: The evolving corona and evidence for jet launching in Markarian 335*
D. R. Wilkins, L. C. Gallo
 Monthly Notices of the Royal Astronomical Society, 449, 129 (2015) – 101 citations
15. *The Comptonisation of accretion disc X-ray emission: Consequences for X-ray reflection and the geometry of AGN coronae*
D. R. Wilkins, L. C. Gallo
 Monthly Notices of the Royal Astronomical Society, 448, 703 (2015) – 47 citations
16. *Caught in the act: Measuring the changes in the corona that cause the extreme variability of 1H 0707-495*
D. R. Wilkins, E. Kara, A. C. Fabian, L. C. Gallo
 Monthly Notices of the Royal Astronomical Society, 443, 2746 (2014) – 38 citations
17. *The origin of the lag spectra observed in AGN: Reverberation and the propagation of X-ray source fluctuations*
D. R. Wilkins, A. C. Fabian
 Monthly Notices of the Royal Astronomical Society, 430, 247 (2013) – 89 citations
18. *Understanding X-ray reflection emissivity profiles in AGN: Locating the X-ray source*
D. R. Wilkins, A. C. Fabian
 Monthly Notices of the Royal Astronomical Society, 424, 1284 (2012) – 201 citations
19. *Testing the accuracy of radiative cooling approximations in SPH simulations*
Daniel R. Wilkins, Cathie J. Clarke
 Monthly Notices of the Royal Astronomical Society, 419, 3368 (2012) – 10 citations
20. *Determination of the X-ray reflection emissivity profile of 1H 0707-495*
D. R. Wilkins, A. C. Fabian
 Monthly Notices of the Royal Astronomical Society, 414, 1269 (2011) – 111 citations

Further publications

1. *X-ray/UVOIR Frequency-resolved Time Lag Analysis of Mrk 335 Reveals Accretion Disk Reprocessing*
 Collin Lewin, Erin Kara, Edward M. Cackett, **Dan Wilkins**, Christos Panagiotou, Javier A. Garcia, Jonathan Gelbord
 The Astrophysical Journal, 954, 33 (2023)
2. *UV/Optical disk reverberation lags despite a faint X-ray corona in the AGN Mrk 335*
 Erin Kara, Aaron J. Barth, Edward M. Cackett, Jonathan Gelbord, John Montano, Yan-Rong Li, Lisabeth Santana, Keith Horne +32 co-authors incl. **Wilkins**
 The Astrophysical Journal, 947, 62 (2023) – 5 citations

3. *A deep, multi-epoch Chandra HETG study of the ionized outflow from NGC 4051*
A. Ogorzalek, A. L. King, S. W. Allen, J. C. Raymond, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 516, 5027 (2022)
4. *The multi-epoch X-ray tale of I Zwicky 1 outflows*
Daniele Rogantini, Elisa Costantini, Luigi Gallo, **Dan Wilkins**, Niel Brandt, Missagh Mehdipour
Monthly Notices of the Royal Astronomical Society, 516, 5171 (2022) – 2 citations
5. *X-ray Reverberation Mapping of Ark 564 using Gaussian Process Regression*
Collin D. Lewin, Erin Kara, **Daniel R. Wilkins**, Guglielmo Mastroserio, Javier A. Garca, Rachel Zhang, William Alston, Riley M. Connors +10 co-authors
The Astrophysical Journal, 939, 109 (2022) – 2 citations
6. *Single electron Sensitive Readout (SiSeRO) X-ray detectors: Technological progress and characterization*
Tanmoy Chattopadhyay, Sven Herrmann, Peter Orel, R. G. Morris, **Daniel R. Wilkins**, Steven W. Allen, Gregory Prigozhin, Beverly LaMarr +6 co-authors
X-Ray, Optical, and Infrared Detectors for Astronomy X, 12191, 121910W (2022) – 3 citations
7. *High-density disc reflection spectroscopy of low-mass active galactic nuclei*
L. Mallick, A. C. Fabian, J. A. García, J. A. Tomsick, M. L. Parker, T. Dauser, **D. R. Wilkins**, B. De Marco +8 co-authors
Monthly Notices of the Royal Astronomical Society, 513, 4361 (2022) – 5 citations
8. *First results on SiSeRO (Single electron Sensitive Read Out) devices – a new X-ray detector for scientific instrumentation*
Tanmoy Chattopadhyay, Sven Herrmann, Barry Burke, Kevan Donlon, Gregory Prigozhin, R. Glenn Morris, Peter Orel, Michael Cooper +6 co-authors incl. **Wilkins**
Journal of Astronomical Telescopes, Instruments, and Systems, 8, 026006 (2022) – 4 citations
9. *Mitigating the effects of particle background on the Athena Wide-Field Imager*
Eric D. Miller, Catherine E. Grant, Marshall W. Bautz, Silvano Molendi, Ralph Kraft, Paul Nulsen, Esra Bulbul, Steven Allen +11 co-authors incl. **Wilkins**
Journal of Astronomical Telescopes, Instruments, and Systems, 8, 018001 (2022) – 2 citations
10. *Modelling the Multiwavelength Variability of Mrk 335 using Gaussian Processes*
Ryan-Rhys Griffiths, Jiachen Jiang, Douglas J. K. Buisson, **Dan R. Wilkins**, Luigi C. Gallo, Adam Ingram, Alpha A. Lee, Dirk Grupe +7 co-authors
The Astrophysical Journal, 914, 144 (2021) – 6 citations
11. *Discovery of soft and hard X-ray time lags in low-mass AGNs*
Labani Mallick, **Daniel R. Wilkins**, William N. Alston, Alex Markowitz, Barbara De Marco, Michael L. Parker, Anne M. Lohfink, C. S. Stalin
Monthly Notices of the Royal Astronomical Society, 503, 3775 (2021) – 4 citations
12. *Characterising continuum variability in the radio-loud narrow-line Seyfert 1 galaxy IRAS 17020+4544*
A. G. Gonzalez, L. C. Gallo, P. Kosec, A. C. Fabian, W. N. Alston, M. Berton, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 496, 3708 (2020) – 2 citations
13. *Blueshifted absorption lines from X-ray reflection in IRAS 13224-3809*
A. C. Fabian, C. S. Reynolds, J. Jiang, C. Pinto, L. C. Gallo, M. L. Parker, A. N. Lasenby, W. N. Alston +12 co-authors incl. **Wilkins**
Monthly Notices of the Royal Astronomical Society, 493, 2518 (2020) – 13 citations

14. *The Soft State of the Black Hole Transient Source MAXI J1820+070: Emission from the Edge of the Plunge Region?*
A. C. Fabian, D. J. Buisson, P. Kosec, C. S. Reynolds, **D. R. Wilkins**, J. A. Tomsick, D. J. Walton, P. Gandhi +13 co-authors
Monthly Notices of the Royal Astronomical Society, 493, 5389 (2020) – 31 citations
15. *Characterisation of the Particle-Induced Background of XMM-Newton EPIC-pn: Short and Long Term Variability*
Esra Bulbul, Ralph Kraft, Paul Nulsen, Michael Freyberg, Eric D. Miller, Catherine Grant, Mark W. Bautz, David N. Burrows +11 co-authors incl. **Wilkins**
The Astrophysical Journal, 891, 13 (2020) – 15 citations
16. *A dynamic black hole corona in an active galaxy through X-ray reverberation mapping*
William N. Alston, Andrew C. Fabian, Erin Kara, Michael L. Parker, Michal Dovciak, Ciro Pinto, Jiachen Jiang, Matthew J. Middleton +13 co-authors incl. **Wilkins**
Nature Astronomy, 4, 597 (2020) – 65 citations
17. *Black hole magnetosphere with small scale flux tubes–II. Stability and dynamics*
Yajie Yuan, Anatoly Spitkovsky, Roger D. Blandford, **Dan R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 487, 4114 (2019) – 23 citations
18. *Supermassive Black Hole Spin and Reverberation*
A. Zoghbi, **D. R. Wilkins**, L. Brenneman, G. Miniutti, G. Matt, J. Garcia, E. Kara, E. Cackett +2 co-authors
Bulletin of the American Astronomical Society, 51, 62 (2019)
19. *Evidence for an emerging disc wind and collimated outflow during an X-ray flare in the narrow-line Seyfert 1 galaxy Mrk 335*
L. C. Gallo, A. G. Gonzalez, S. G. H. Waddell, H. J. S. Ehler, **D. R. Wilkins**, A. L. Longinotti, D. Grupe, S. Komossa +8 co-authors
Monthly Notices of the Royal Astronomical Society, 484, 4287 (2019) – 32 citations
20. *Black hole magnetosphere with small scale flux tubes*
Yajie Yuan, Roger D. Blandford, **Dan R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 484, 4920 (2019) – 21 citations
21. *The XMM-Newton/HST view of the obscuring outflow in the Seyfert Galaxy Mrk 335 observed at extremely low X-ray flux*
Anna Lia Longinotti, Gerard Kriss, Yair Krongold, Karla Arellano-Cordova, Stefanie Komossa, Luigi Gallo, Dirk Grupe, Smita Mathur +3 co-authors incl. **Wilkins**
The Astrophysical Journal, 875, 150 (2019) – 29 citations
22. *STROBE-X: X-ray Timing and Spectroscopy on Dynamical Timescales from Microseconds to Years*
Paul S. Ray, Zaven Arzoumanian, David Ballantyne, Enrico Bozzo, Soren Brandt, Laura Brenneman, Deepto Chakrabarty, Marc Christophersen +151 co-authors incl. **Wilkins**
arXiv e-prints, arXiv:1903.03035 (2019) – 65 citations
23. *The remarkable X-ray variability of IRAS 13224-3809 I: The variability process*
W. N. Alston, A. C. Fabian, D. J. K. Buisson, E. Kara, M. L. Parker, A. M. Lohfink, P. Uttley, **D. R. Wilkins** +12 co-authors
Monthly Notices of the Royal Astronomical Society, 482, 2088 (2019) – 56 citations
24. *Detection of polarized gamma-ray emission from the Crab nebula with Hitomi Soft Gamma-ray Detector*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +186 co-authors
Publications of the Astronomical Society of Japan, 70, 113 (2018) – 20 citations

25. *The variability of the warm absorber in I Zwicky 1 as seen by XMM-Newton*
C. V. Silva, E. Costantini, M. Giustini, G. A. Kriss, W. N. Brandt, L. C. Gallo, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 480, 2334 (2018) – 13 citations
26. *Eleven years of monitoring the Seyfert 1 Mrk 335 with Swift: Characterizing the X-ray and UV/optical variability*
L. C. Gallo, D. M. Blue, D. Grupe, S. Komossa, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 478, 2557 (2018) – 43 citations
27. *The 1.5 Ms Observing Campaign on IRAS 13224-3809: X-ray Spectral Analysis I*
J. Jiang, M. L. Parker, A. C. Fabian, W. N. Alston, D. J. K. Buisson, E. M. Cackett, C. -Y. Chiang, T. Dauser
+11 co-authors
Monthly Notices of the Royal Astronomical Society, 477, 3711 (2018) – 72 citations
28. *Variable blurred reflection in the narrow-line Seyfert 1 galaxy Mrk 493*
K. Bonson, L. C. Gallo, **D. R. Wilkins**, A. C. Fabian
Monthly Notices of the Royal Astronomical Society, 477, 3247 (2018) – 7 citations
29. *The Athena WFI Science Products Module*
David N. Burrows, Steven Allen, Marshall Bautz, Esra Bulbul, Julia Erdley, Abraham D. Falcone, Stanislav Fort, Catherine E. Grant +10 co-authors incl. **Wilkins**
Space Telescopes and Instrumentation 2018: Ultraviolet to Gamma Ray, 10699, 106991J (2018)
30. *Hitomi X-ray Observation of the Pulsar Wind Nebula G21.5–0.9*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +190 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 38 (2018) – 13 citations
31. *Is there a UV/X-ray connection in IRAS 13224-3809?*
D. J. K. Buisson, A. M. Lohfink, W. N. Alston, E. M. Cackett, C. -Y. Chiang, T. Dauser, B. De Marco, A. C. Fabian +11 co-authors incl. **Wilkins**
Monthly Notices of the Royal Astronomical Society, 475, 2306 (2018) – 24 citations
32. *Hitomi X-ray studies of Giant Radio Pulses from the Crab pulsar*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +196 co-authors
Publications of the Astronomical Society of Japan, 70, 15 (2018) – 14 citations
33. *Measurements of resonant scattering in the Perseus cluster core with Hitomi SXS*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +187 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 10 (2018) – 45 citations
34. *Temperature Structure in the Perseus Cluster Core Observed with Hitomi*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +187 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 11 (2018) – 40 citations
35. *Hitomi Observation of Radio Galaxy NGC 1275: The First X-ray Microcalorimeter Spectroscopy of Fe-K α Line Emission from an Active Galactic Nucleus*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +186 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 13 (2018) – 39 citations

36. *Hitomi Observations of the LMC SNR N132D: Highly Redshifted X-ray Emission from Iron Ejecta*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +186 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 16 (2018) – 19 citations
37. *Glimpse of the highly obscured HMXB IGR J16318-4848 with Hitomi*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +186 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 17 (2018) – 9 citations
38. *Atomic data and spectral modeling constraints from high-resolution X-ray observations of the Perseus cluster with Hitomi*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +187 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 12 (2018) – 74 citations
39. *Search for Thermal X-ray Features from the Crab nebula with Hitomi Soft X-ray Spectrometer*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +187 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 14 (2018) – 10 citations
40. *Atmospheric gas dynamics in the Perseus cluster observed with Hitomi*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Marc Audard, Hisamitsu Awaki +190 co-authors incl. **Wilkins**
Publications of the Astronomical Society of Japan, 70, 9 (2018) – 107 citations
41. *Probing the geometry and motion of AGN coronae through accretion disc emissivity profiles*
A. G. Gonzalez, **D. R. Wilkins**, L. C. Gallo
Monthly Notices of the Royal Astronomical Society, 472, 1932 (2017) – 37 citations
42. *Solar abundance ratios of the iron-peak elements in the Perseus Cluster*
Hitomi Collaboration incl. **Wilkins**
Nature, 551, 478 (2017) – 66 citations
43. *The high-Eddington NLS1 Ark 564 has the coolest corona*
E. Kara, J. A. Garcia, A. Lohfink, A. C. Fabian, C. S. Reynolds, F. Tombesi, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 468, 3489 (2017) – 62 citations
44. *The response of relativistic outflowing gas to the inner accretion disk of a black hole*
Michael L. Parker, Ciro Pinto, Andrew C. Fabian, Anne Lohfink, Douglas J. K. Buisson, William Alston, Erin Kara, Edward M. Cackett +16 co-authors incl. **Wilkins**
Nature, 543, 83 (2017) – 110 citations
45. *The Future of X-ray Reverberation from AGN*
A. C. Fabian, W. N. Alston, E. M. Cackett, E. Kara, P. Uttley, **D. R. Wilkins**
Astronomische Nachrichten, 338, 269 (2017) – 7 citations
46. *Hitomi constraints on the 3.5 keV line in the Perseus galaxy cluster*
Hitomi Collaboration, Felix A. Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Lorella Angelini, Keith A. Arnaud, Marc Audard +210 co-authors incl. **Wilkins**
The Astrophysical Journal, 837, L15 (2017) – 113 citations
47. *The Quiescent Intracluster Medium in the Core of the Perseus Cluster*
Hitomi Collaboration, Felix Aharonian, Hiroki Akamatsu, Fumie Akimoto, Steven W. Allen, Naohisa Anabuki,

- Lorella Angelini, Keith Arnaud +208 co-authors incl. **Wilkins**
Nature, 535, 117 (2016) – 340 citations
48. *Suzaku observations of Mrk 335: Confronting partial covering and relativistic reflection*
L. C. Gallo, **D. R. Wilkins**, K. Bonson, C-Y. Chiang, D. Grupe, M. L. Parker, A. Zoghbi, A. C. Fabian +2
co-authors
Monthly Notices of the Royal Astronomical Society, 446, 633 (2015) – 69 citations
49. *Modelling the Extreme X-ray Spectrum of IRAS 13224-3809*
Chia-Ying Chiang, D. J. Walton, A. C. Fabian, **D. R. Wilkins**, L. C. Gallo
Monthly Notices of the Royal Astronomical Society, 446, 759 (2015) – 46 citations
50. *New Constraints on the Black Hole Low/Hard State Inner Accretion Flow with NuSTAR*
J. M. Miller, J. A. Tomsick, M. Bachetti, D. Wilkins, S. E. Boggs, F. E. Chistensen, W. W. Craig, A. C.
Fabian +7 co-authors incl. **Wilkins**
The Astrophysical Journal, 799, L6 (2015) – 60 citations
51. *The NuSTAR spectrum of Mrk 335: Extreme relativistic effects within 2 gravitational radii of the event
horizon?*
M. L. Parker, **D. R. Wilkins**, A. C. Fabian, D. Grupe, T. Dauser, G. Matt, F. A. Harrison, L. Brenneman +13
co-authors
Monthly Notices of the Royal Astronomical Society, 443, 1723 (2014) – 110 citations
52. *X-ray reverberation around accreting black holes*
P. Uttley, E. M. Cackett, A. C. Fabian, E. Kara, **D. R. Wilkins**
Astronomy and Astrophysics Review, 22, 72 (2014) – 317 citations
53. *The ASTRO-H X-ray Astronomy Satellite*
Tadayuki Takahashi, Kazuhisa Mitsuda, Richard Kelley, Felix Aharonian, Hiroki Akamatsu, Fumie Aki-
moto, Steve Allen, Naohisa Anabuki +245 co-authors incl. **Wilkins**
Space Telescopes and Instrumentation 2014: Ultraviolet to Gamma Ray, 9144, 914425 (2014) – 50 citations
54. *On the determination of the spin and disc truncation of accreting black holes using X-ray reflection*
A. C. Fabian, M. L. Parker, **D. R. Wilkins**, J. M. Miller, E. Kara, C. S. Reynolds, T. Dauser
Monthly Notices of the Royal Astronomical Society, 439, 2307 (2014) – 85 citations
55. *Modelling the broad Fe K α reverberation in the AGN NGC 4151*
E. M. Cackett, A. Zoghbi, C. Reynolds, A. C. Fabian, E. Kara, P. Uttley, **D. R. Wilkins**
Monthly Notices of the Royal Astronomical Society, 438, 2980 (2014) – 116 citations
56. *Discovery of high-frequency iron K lags in Ark 564 and Mrk 335*
E. Kara, A. C. Fabian, E. M. Cackett, P. Uttley, **D. R. Wilkins**, A. Zoghbi
Monthly Notices of the Royal Astronomical Society, 434, 1129 (2013) – 113 citations
57. *Long XMM observation of the Narrow-Line Seyfert 1 galaxy IRAS13224-3809: rapid variability, high spin
and a soft lag*
A. C. Fabian, E. Kara, D. J. Walton, **D. R. Wilkins**, R. R. Ross, K. Lozanov, P. Uttley, L. C. Gallo +16
co-authors
Monthly Notices of the Royal Astronomical Society, 429, 2917 (2013) – 112 citations
58. *The Closest Look at 1H0707-495: X-ray Reverberation Lags with 1.3 Ms of Data*
E. Kara, A. C. Fabian, E. M. Cackett, J. F. Steiner, P. Uttley, **D. R. Wilkins**, A. Zoghbi
Monthly Notices of the Royal Astronomical Society, 428, 2795 (2013) – 91 citations

59. *On the determination of the spin of the black hole in Cyg X-1 from X-ray reflection spectra*
A. C. Fabian, **D. R. Wilkins**, J. M. Miller, R. C. Reis, C. S. Reynolds, E. M. Cackett, M. A. Nowak, G. G. Pooley +4 co-authors
Monthly Notices of the Royal Astronomical Society, 424, 217 (2012) – 120 citations
60. *1H0707-495 in 2011: An X-ray source within a gravitational radius of the event horizon*
A. C. Fabian, A. Zoghbi, **D. Wilkins**, T. Dwelly, P. Uttley, N. Schartel, G. Miniutti, L. Gallo +3 co-authors
Monthly Notices of the Royal Astronomical Society, 419, 116 (2012) – 117 citations