

# Marek Gierlinski

## List of Publications by Year in descending order

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71  
papers

7,059  
citations

61857

43  
h-index

91712

69  
g-index

76  
all docs

76  
docs citations

76  
times ranked

7324  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Modelling the behaviour of accretion flows in X-ray binaries. <i>Astronomy and Astrophysics Review</i> , 2007, 15, 1-66.  | 9.1 | 925       |
| 2  | How many biological replicates are needed in an RNA-seq experiment and which differential expression tool should you use?. <i>Rna</i> , 2016, 22, 839-851.  | 1.6 | 622       |
| 3  | Is the soft excess in active galactic nuclei real?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, L7-L11.   | 1.6 | 350       |
| 4  | A Quantitative Spatial Proteomics Analysis of Proteome Turnover in Human Cells. <i>Molecular and Cellular Proteomics</i> , 2012, 11, M111.011429.   | 2.5 | 332       |
| 5  | High-Resolution Whole-Genome Sequencing Reveals That Specific Chromatin Domains from Most Human Chromosomes Associate with Nucleoli. <i>Molecular Biology of the Cell</i> , 2010, 21, 3735-3748.                | 0.9 | 274       |
| 6  | A periodicity of $\sim 1/4$ hour in X-ray emission from the active galaxy RE J1034+396. <i>Nature</i> , 2008, 455, 369-371.   | 3.7 | 237       |
| 7  | GX 339 $\alpha$ 4: the distance, state transitions, hysteresis and spectral correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 351, 791-807.  | 1.6 | 232       |
| 8  | Radiative Processes, Spectral States and Variability of Black-Hole Binaries. <i>Progress of Theoretical Physics Supplement</i> , 2004, 155, 99-119.   | 0.2 | 229       |
| 9  | On the nature of the X-ray emission from the accreting millisecond pulsar SAX J1808.4-3658. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 343, 1301-1311.                                    | 1.6 | 220       |
| 10 | Black hole accretion discs: reality confronts theory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 347, 885-894.  | 1.6 | 171       |
| 11 | Broad-band X-ray/ $\gamma$ -ray spectra and binary parameters of GX 339 $\alpha$ 4 and their astrophysical implications. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 301, 435-450.         | 1.6 | 168       |
| 12 | Kinetochores Coordinate Pericentromeric Cohesion and Early DNA Replication by Cdc7-Dbf4 Kinase Recruitment. <i>Molecular Cell</i> , 2013, 50, 661-674.  | 4.5 | 140       |
| 13 | Tmem79/Matt is the matted mouse gene and is a predisposing gene for atopic dermatitis in human subjects. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 132, 1121-1129.                              | 1.5 | 135       |
| 14 | X-ray irradiation in XTE J1817 $\alpha$ 330 and the inner radius of the truncated disc in the hard state. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 388, 753-760.                        | 1.6 | 128       |
| 15 | Observing the effects of the event horizon in black holes. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 342, 1041-1055.   | 1.6 | 126       |
| 16 | Reprocessing of X-rays in the outer accretion disc of the black hole binary XTE J1817 $\alpha$ 330. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 392, 1106-1114.                            | 1.6 | 122       |
| 17 | GRS 1915+105: the brightest Galactic black hole. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 349, 393-403.   | 1.6 | 119       |
| 18 | Live imaging of nascent RNA dynamics reveals distinct types of transcriptional pulse regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 7350-7355. | 3.3 | 111       |

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|----|--|-----|-----------|
| 19 | Correlation between the photon index and X-ray luminosity of black hole X-ray binaries and active galactic nuclei: observations and interpretation. Monthly Notices of the Royal Astronomical Society, 2015, 447, 1692-1704. | 1.6 | 103       |
| 20 | Physics of accretion in the millisecond pulsar XTE J1751-305. Monthly Notices of the Royal Astronomical Society, 2005, 359, 1261-1276.   | 1.6 | 85        |
| 21 | Application of a relativistic accretion disc model to X-ray spectra of LMC X-1 and GRO J1655-40. Monthly Notices of the Royal Astronomical Society, 2001, 325, 1253-1265.  | 1.6 | 84        |
| 22 | Black hole spin in GRS 1915+105. Monthly Notices of the Royal Astronomical Society, 2006, 373, 1004-1012.  | 1.6 | 84        |
| 23 | Thermal proteome profiling of breast cancer cells reveals proteasomal activation by CDK4/6 inhibitor palbociclib. EMBO Journal, 2018, 37, .  | 3.5 | 84        |
| 24 | The X-ray spectrum of the atoll source 4U 1608-52. Monthly Notices of the Royal Astronomical Society, 2002, 337, 1373-1380.  | 1.6 | 82        |
| 25 | Phase-resolved X-ray spectroscopy of the millisecond pulsar SAX J1808.4-3658. Monthly Notices of the Royal Astronomical Society, 2002, 331, 141-153.   | 1.6 | 81        |
| 26 | Triggering MSR1 promotes JNK-mediated inflammation in IL4-activated macrophages. EMBO Journal, 2019, 38, .   | 3.5 | 78        |
| 27 | Patterns of energy-dependent variability from Comptonization. Monthly Notices of the Royal Astronomical Society, 2005, 363, 1349-1360.   | 1.6 | 77        |
| 28 | Statistical models for RNA-seq data derived from a two-condition 48-replicate experiment. Bioinformatics, 2015, 31, 3625-3630.   | 1.8 | 76        |
| 29 | RE J1034+396: the origin of the soft X-ray excess and quasi-periodic oscillation. Monthly Notices of the Royal Astronomical Society, 2009, 394, 250-260.   | 1.6 | 75        |
| 30 | Analysing the atolls: X-ray spectral transitions of accreting neutron stars. Monthly Notices of the Royal Astronomical Society, 2007, 378, 13-22.  | 1.6 | 71        |
| 31 | Truncated disc versus extremely broad iron line in XTE J1650-500. Monthly Notices of the Royal Astronomical Society, 2006, 367, 659-668.   | 1.6 | 70        |
| 32 | High-resolution quantitative proteome analysis reveals substantial differences between phagosomes of RAW 264.7 and bone marrow derived macrophages. Proteomics, 2015, 15, 3169-3174.   | 1.3 | 65        |
| 33 | X-ray spectral transitions of black holes from RXTE All-Sky Monitor. Monthly Notices of the Royal Astronomical Society, 2006, 370, 837-844.  | 1.6 | 61        |
| 34 | The X-ray/Å-ray spectrum of XTE J1550-564 in the very high state. Monthly Notices of the Royal Astronomical Society, 2003, 342, 1083-1092.   | 1.6 | 60        |
| 35 | Stochastic association of neighboring replicons creates replication factories in budding yeast. Journal of Cell Biology, 2013, 202, 1001-1012.   | 2.3 | 59        |
| 36 | A comment on the colour-colour diagrams of low-mass X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2002, 331, L47-L50.   | 1.6 | 58        |

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|----|---|-----|-----------|
| 37 | X-ray and Å-ray spectra and variability of the black hole candidate GX 339-4. Monthly Notices of the Royal Astronomical Society, 2002, 337, 829-839.  | 1.6 | 57        |
| 38 | Quantitative Proteome Analysis of Temporally Resolved Phagosomes Following Uptake Via Key Phagocytic Receptors. Molecular and Cellular Proteomics, 2015, 14, 1334-1349.                       | 2.5 | 56        |
| 39 | Spectral and temporal properties of Compton scattering by mildly relativistic thermal electrons. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5234-5246.                     | 1.6 | 56        |
| 40 | Scaling variability from stellar to supermassive black holes. Monthly Notices of the Royal Astronomical Society, 2005, 364, 208-216.  | 1.6 | 55        |
| 41 | An absorption origin for the soft excess in Seyfert 1 active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2007, 381, 1426-1436.  | 1.6 | 55        |
| 42 | GRS 1915+105: the distance, radiative processes and energy-dependent variability. Monthly Notices of the Royal Astronomical Society, 2005, 360, 825-838.                                      | 1.6 | 54        |
| 43 | Neural differentiation, selection and transcriptomic profiling of human neuromesodermal progenitors-like cells in vitro. Development (Cambridge), 2018, 145, .                                | 1.2 | 48        |
| 44 | High-frequency X-ray variability as a mass estimator of stellar and supermassive black holes. Monthly Notices of the Royal Astronomical Society, 0, 383, 741-749.                             | 1.6 | 47        |
| 45 | The superorbital variability and triple nature of the X-ray source 4U 1820-303. Monthly Notices of the Royal Astronomical Society, 2007, 377, 1006-1016.                                      | 1.6 | 45        |
| 46 | Kinetochores-Dependent Microtubule Rescue Ensures Their Efficient and Sustained Interactions in Early Mitosis. Developmental Cell, 2011, 21, 920-933.   | 3.1 | 40        |
| 47 | Simulated spectral states of active galactic nuclei and observational predictions. Monthly Notices of the Royal Astronomical Society, 2011, 413, 2259-2268.                                   | 1.6 | 40        |
| 48 | Compton scattering as the explanation of the peculiar X-ray properties of Cyg X-3. Monthly Notices of the Royal Astronomical Society, 2010, 402, 767-775.                                     | 1.6 | 39        |
| 49 | The Seyfert AGN RX J0136.9+3510 and the spectral state of super Eddington accretion flows. Monthly Notices of the Royal Astronomical Society: Letters, 2009, 398, L16-L20.                    | 1.2 | 35        |
| 50 | Evaluation of the Diagnostic Accuracy of Prototype Rapid Tests for Human African Trypanosomiasis. PLoS Neglected Tropical Diseases, 2014, 8, e3373.   | 1.3 | 34        |
| 51 | Discovery of powerful millisecond flares from Cygnus X-1. Monthly Notices of the Royal Astronomical Society, 2003, 343, L84-L88.  | 1.6 | 32        |
| 52 | Correlated Timing and Spectral Behavior of 4U 1705+44. Astrophysical Journal, 2003, 583, 416-423.   | 1.6 | 29        |
| 53 | Consistency of the black hole mass determination in AGN from the reverberation and the X-ray excess variance method. Monthly Notices of the Royal Astronomical Society, 2006, 370, 1534-1540. | 1.6 | 29        |
| 54 | Global ubiquitylation analysis of mitochondria in primary neurons identifies endogenous Parkin targets following activation of PINK1. Science Advances, 2021, 7, eabj0722.                    | 4.7 | 29        |

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|----|---|-----|-----------|
| 55 | What can we learn about quasars from $\hat{\pm}$ measurements in Galactic black hole binaries?. Monthly Notices of the Royal Astronomical Society, 2009, 394, 1640-1648.    | 1.6 | 26        |
| 56 | Wnt regulates amino acid transporter <i>Slc7a5</i> and so constrains the integrated stress response in mouse embryos. EMBO Reports, 2020, 21, e48469.                       | 2.0 | 26        |
| 57 | Dependence of the orbital modulation of X-rays from 4U 1820-303 on the accretion rate. Monthly Notices of the Royal Astronomical Society, 2007, 377, 1017-1023.             | 1.6 | 25        |
| 58 | EMSY expression affects multiple components of the skin barrier with relevance to atopic dermatitis. Journal of Allergy and Clinical Immunology, 2019, 144, 470-481.        | 1.5 | 23        |
| 59 | Acute depletion of the ARID1A subunit of SWI/SNF complexes reveals distinct pathways for activation and repression of transcription. Cell Reports, 2021, 37, 109943.        | 2.9 | 23        |
| 60 | Molecular mechanisms facilitating the initial kinetochore encounter with spindle microtubules. Journal of Cell Biology, 2017, 216, 1609-1622.                               | 2.3 | 20        |
| 61 | Proteome-wide analysis of protein abundance and turnover remodelling during oncogenic transformation of human breast epithelial cells. Wellcome Open Research, 2018, 3, 51. | 0.9 | 18        |
| 62 | Distinct signals and immune cells drive liver pathology and glomerulonephritis in ABIN1[D485N] mice. Life Science Alliance, 2019, 2, e201900533.                            | 1.3 | 17        |
| 63 | Live imaging of marked chromosome regions reveals their dynamic resolution and compaction in mitosis. Journal of Cell Biology, 2019, 218, 1531-1552.                        | 2.3 | 16        |
| 64 | High resolution imaging reveals heterogeneity in chromatin states between cells that is not inherited through cell division. BMC Cell Biology, 2016, 17, 33.                | 3.0 | 14        |
| 65 | Spectral Transitions in X-Ray Binaries. Progress of Theoretical Physics Supplement, 2004, 155, 9-18.  | 0.2 | 11        |
| 66 | How well do RNA-Seq differential gene expression tools perform in a complex eukaryote? A case study in <i>Arabidopsis thaliana</i> . Bioinformatics, 2019, 35, 3372-3377.   | 1.8 | 9         |
| 67 | Modelling the pulse profiles of accreting millisecond pulsars and X-ray bursters. Nuclear Physics, Section B, Proceedings Supplements, 2004, 132, 640-643.                  | 0.5 | 6         |
| 68 | Accretion in Strong Gravity: from Galactic to Supermassive Black Holes. Astrophysics and Space Science, 2005, 300, 167-175.   | 0.5 | 4         |
| 69 | ACCRETION-JET MODEL FOR THE HARD X-ray $\hat{\pm}$ - LXCORRELATION IN BLACK HOLE X-ray BINARIES. Publications of the Korean Astronomical Society, 2015, 30, 565-568.        | 0.1 | 3         |
| 70 | Mechanisms mitigating problems with multiple kinetochores on one microtubule in early mitosis. Journal of Cell Science, 2017, 130, 2266-2276.                               | 1.2 | 2         |
| 71 | The superorbital variability and triple nature of the X-ray source 4U 1820-303. AIP Conference Proceedings, 2008, , .   | 0.3 | 0         |