

Michael J Kurtz

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

4,501
citations

36
h-index

66
g-index

104
ext. papers

4,720
ext. citations

4.2
avg, IF

5.07
L-index

| # | Paper | IF | Citations |
|----|--|-----|-----------|
| 94 | Center for Astrophysics Optical Infrared Science Archive. I. FAST Spectrograph. <i>Astronomical Journal</i> , 2021 , 161, 3 | 4.9 | 1 |
| 93 | Usage Bibliometrics as a Tool to Measure Research Activity. <i>Springer Handbooks</i> , 2019 , 819-834 | 1.3 | 2 |
| 92 | Comparing People with Bibliometrics. <i>EPJ Web of Conferences</i> , 2018 , 186, 06004 | 0.3 | |
| 91 | Measuring metrics - a 40-year longitudinal cross-validation of citations, downloads, and peer review in astrophysics. <i>Journal of the Association for Information Science and Technology</i> , 2017 , 68, 695-708 | 2.7 | 13 |
| 90 | HECTOMAP AND HORIZON RUN 4: DENSE STRUCTURES AND VOIDS IN THE REAL AND SIMULATED UNIVERSE. <i>Astrophysical Journal</i> , 2016 , 818, 173 | 4.7 | 20 |
| 89 | SHELS: COMPLETE REDSHIFT SURVEYS OF TWO WIDELY SEPARATED FIELDS. <i>Astrophysical Journal, Supplement Series</i> , 2016 , 224, 11 | 8 | 22 |
| 88 | The Classification Society's Bibliography Over Four Decades: History and Content Analysis. <i>Journal of Classification</i> , 2016 , 33, 6-29 | 1.2 | 5 |
| 87 | SHELS: A COMPLETE GALAXY REDSHIFT SURVEY WITH R > 20.6. <i>Astrophysical Journal, Supplement Series</i> , 2014 , 213, 35 | 8 | 39 |
| 86 | A REDSHIFT SURVEY OF THE STRONG-LENSING CLUSTER ABELL 383. <i>Astrophysical Journal</i> , 2014 , 783, 52 | 4.7 | 29 |
| 85 | REDUCING SYSTEMATIC ERROR IN WEAK LENSING CLUSTER SURVEYS. <i>Astrophysical Journal</i> , 2014 , 786, 93 | 4.7 | 14 |
| 84 | COMPARISON OF GALAXY CLUSTERS SELECTED BY WEAK-LENSING, OPTICAL SPECTROSCOPY, AND X-RAYS IN THE DEEP LENS SURVEY F2 FIELD. <i>Astrophysical Journal</i> , 2014 , 786, 125 | 4.7 | 8 |
| 83 | Measuring Galaxy Velocity Dispersions with Hectospec. <i>Publications of the Astronomical Society of the Pacific</i> , 2013 , 125, 1362-1369 | 5 | 19 |
| 82 | THE CHEMICAL EVOLUTION OF STAR-FORMING GALAXIES OVER THE LAST 11 BILLION YEARS. <i>Astrophysical Journal Letters</i> , 2013 , 771, L19 | 7.9 | 120 |
| 81 | MEASURING THE ULTIMATE HALO MASS OF GALAXY CLUSTERS: REDSHIFTS AND MASS PROFILES FROM THE HECTOSPEC CLUSTER SURVEY (HeCS). <i>Astrophysical Journal</i> , 2013 , 767, 15 | 4.7 | 138 |
| 80 | SHELS: OPTICAL SPECTRAL PROPERTIES OF WISE22 μ m SELECTED GALAXIES. <i>Astrophysical Journal</i> , 2012 , 758, 25 | 4.7 | 23 |
| 79 | CLASH: PRECISE NEW CONSTRAINTS ON THE MASS PROFILE OF THE GALAXY CLUSTER A2261. <i>Astrophysical Journal</i> , 2012 , 757, 22 | 4.7 | 89 |
| 78 | A measure of total research impact independent of time and discipline. <i>PLoS ONE</i> , 2012 , 7, e46428 | 3.7 | 39 |

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| 77 | THE FAINT END OF THE LUMINOSITY FUNCTION AND LOW SURFACE BRIGHTNESS GALAXIES. <i>Astronomical Journal</i> , 2012 , 143, 102 | 4.9 | 25 |
| 76 | TESTING WEAK-LENSING MAPS WITH REDSHIFT SURVEYS: A SUBARU FIELD. <i>Astrophysical Journal</i> , 2012 , 750, 168 | 4.7 | 11 |
| 75 | MAPPING THE UNIVERSE: THE 2010 RUSSELL LECTURE. <i>Astronomical Journal</i> , 2011 , 142, 133 | 4.9 | 21 |
| 74 | Finding Your Literature Match I A Recommender System. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2011 , 125-134 | 0.3 | |
| 73 | The Emerging Scholarly Brain. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2011 , 23-35 | 0.3 | 1 |
| 72 | EVOLUTION OF THE H ₁ LUMINOSITY FUNCTION. <i>Astrophysical Journal</i> , 2010 , 708, 534-549 | 4.7 | 29 |
| 71 | TRIGGERED STAR FORMATION IN GALAXY PAIRS AT $z=0.08-0.38$. <i>Astronomical Journal</i> , 2010 , 139, 1857-1870 | 4.7 | 52 |
| 70 | Empirical Optical Corrections for Redshifts. <i>Publications of the Astronomical Society of the Pacific</i> , 2010 , 122, 1258-1284 | 5 | 15 |
| 69 | SHELS: TESTING WEAK-LENSING MAPS WITH REDSHIFT SURVEYS. <i>Astrophysical Journal</i> , 2010 , 709, 832-850 | 4.7 | 35 |
| 68 | Usage bibliometrics. <i>Annual Review of Information Science & Technology</i> , 2010 , 44, 1-64 | | 81 |
| 67 | How the Literature is Used A View Through Citation and Usage Statistics of the ADS. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2010 , 141-147 | 0.3 | 2 |
| 66 | Use of astronomical literature A report on usage patterns. <i>Journal of Informetrics</i> , 2009 , 3, 1-8 | 3.1 | 12 |
| 65 | Spectrophotometry with Hectospec, the MMT's Fiber-Fed Spectrograph. <i>Publications of the Astronomical Society of the Pacific</i> , 2008 , 120, 1222-1232 | 5 | 39 |
| 64 | THE CENTURY SURVEY GALACTIC HALO PROJECT. III. A COMPLETE 4300 DEG ² SURVEY OF BLUE HORIZONTAL BRANCH STARS IN THE METAL-WEAK THICK DISK AND INNER HALO. <i>Astronomical Journal</i> , 2008 , 135, 564-574 | 4.9 | 42 |
| 63 | Stellar Velocity Dispersion of the Leo A Dwarf Galaxy. <i>Astrophysical Journal</i> , 2007 , 666, 231-235 | 4.7 | 24 |
| 62 | Hypervelocity Stars. III. The Space Density and Ejection History of Main-Sequence Stars from the Galactic Center. <i>Astrophysical Journal</i> , 2007 , 671, 1708-1716 | 4.7 | 67 |
| 61 | PhotoZ: Photometric Redshifts by Inverting the Tolman Surface Brightness Test. <i>Astronomical Journal</i> , 2007 , 134, 1360-1367 | 4.9 | 15 |
| 60 | SDSS 0809+1729: Connections Between Extremely Metal-Poor Galaxies and Gamma-Ray Burst Hosts. <i>Astronomical Journal</i> , 2007 , 133, 882-888 | 4.9 | 51 |

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| 59 | E-prints and journal articles in astronomy: a productive co-existence. <i>Learned Publishing</i> , 2007 , 20, 16-22 | 1.8 | 15 |
| 58 | Hypervelocity Stars. II. The Bound Population. <i>Astrophysical Journal</i> , 2007 , 660, 311-318 | 4.7 | 64 |
| 57 | Connecting the literature with on-line data. <i>Proceedings of the International Astronomical Union</i> , 2006 , 2, 605-605 | 0.1 | |
| 56 | A Successful Targeted Search for Hypervelocity Stars. <i>Astrophysical Journal</i> , 2006 , 640, L35-L38 | 4.7 | 80 |
| 55 | Hypervelocity Stars: Predicting the Spectrum of Ejection Velocities. <i>Astrophysical Journal</i> , 2006 , 653, 1194-1202 | 4.7 | 97 |
| 54 | Effect of E-printing on Citation Rates in Astronomy and Physics. <i>Journal of Electronic Publishing</i> , 2006 , 9, | 0.5 | 20 |
| 53 | Hypervelocity Stars. I. The Spectroscopic Survey. <i>Astrophysical Journal</i> , 2006 , 647, 303-311 | 4.7 | 96 |
| 52 | Hectospec, the MMTB 300 Optical Fiber-Fed Spectrograph. <i>Publications of the Astronomical Society of the Pacific</i> , 2005 , 117, 1411-1434 | 5 | 273 |
| 51 | CAIRNS: The Cluster and Infall Region Nearby Survey. III. Environmental Dependence of H β Properties of Galaxies. <i>Astronomical Journal</i> , 2005 , 130, 1482-1501 | 4.9 | 83 |
| 50 | The Century Survey Galactic Halo Project. II. Global Properties and the Luminosity Function of Field Blue Horizontal Branch Stars. <i>Astronomical Journal</i> , 2005 , 130, 1097-1110 | 4.9 | 19 |
| 49 | Discovery of an Unbound Hypervelocity Star in the Milky Way Halo. <i>Astrophysical Journal</i> , 2005 , 622, L33-L36 | 4.7 | 259 |
| 48 | SHELS: The Hectospec Lensing Survey. <i>Astrophysical Journal</i> , 2005 , 635, L125-L128 | 4.7 | 54 |
| 47 | The effect of use and access on citations. <i>Information Processing and Management</i> , 2005 , 41, 1395-1402 | 6.3 | 117 |
| 46 | Worldwide use and impact of the NASA Astrophysics Data System digital library. <i>Journal of the Association for Information Science and Technology</i> , 2005 , 56, 36-45 | | 50 |
| 45 | The bibliometric properties of article readership information. <i>Journal of the Association for Information Science and Technology</i> , 2005 , 56, 111-128 | | 59 |
| 44 | CAIRNS: The Cluster and Infall Region Nearby Survey. II. Environmental Dependence of Infrared Mass-to-Light Ratios. <i>Astronomical Journal</i> , 2004 , 128, 1078-1111 | 4.9 | 63 |
| 43 | Mapping the Inner Halo of the Galaxy with 2MASS-Selected Horizontal-Branch Candidates. <i>Astronomical Journal</i> , 2004 , 127, 1555-1566 | 4.9 | 25 |
| 42 | The Century Survey Galactic Halo Project. I. Stellar Spectral Analysis. <i>Astronomical Journal</i> , 2003 , 126, 1362-1380 | 4.9 | 23 |

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| 41 | CAIRNS: The Cluster and Infall Region Nearby Survey. I. Redshifts and Mass Profiles. <i>Astronomical Journal</i> , 2003 , 126, 2152-2170 | 4.9 | 191 |
| 40 | The NASA Astrophysics Data System: Free Access to the Astronomical Literature On-line and through Email. <i>Astrophysics and Space Science</i> , 2002 , 282, 299-340 | 1.6 | 3 |
| 39 | Second order bibliometric operators in the Astrophysics Data System 2002 , | | 3 |
| 38 | Infrared Mass-to-Light Profile throughout the Infall Region of the Coma Cluster. <i>Astrophysical Journal</i> , 2001 , 561, L41-L44 | 4.7 | 44 |
| 37 | Star Formation in a Complete Spectroscopic Survey of Galaxies. <i>Astrophysical Journal</i> , 2001 , 559, 606-619. | 4.7 | 68 |
| 36 | [ITAL]V[/ITAL]- and [ITAL]R[/ITAL]-band Galaxy Luminosity Functions and Low Surface Brightness Galaxies in the Century Survey. <i>Astronomical Journal</i> , 2001 , 122, 714-728 | 4.9 | 42 |
| 35 | Redshifts for 2410 Galaxies in the Century Survey Region. <i>Astronomical Journal</i> , 2001 , 122, 2893-2900 | 4.9 | 17 |
| 34 | Nonlinear control of competitive mixed-culture bioreactors via specific cell adhesion. <i>Canadian Journal of Chemical Engineering</i> , 2000 , 78, 237-247 | 2.3 | 4 |
| 33 | Eigenvector Sky Subtraction. <i>Astrophysical Journal</i> , 2000 , 533, L183-L186 | 4.7 | 11 |
| 32 | Rotation Curve Measurement using Cross-Correlation1. <i>Publications of the Astronomical Society of the Pacific</i> , 2000 , 112, 367-383 | 5 | 7 |
| 31 | The NASA Astrophysics Data System: Overview. <i>Astronomy and Astrophysics</i> , 2000 , 143, 41-59 | | 62 |
| 30 | The NASA Astrophysics Data System: The search engine and its user interface. <i>Astronomy and Astrophysics</i> , 2000 , 143, 61-83 | | 15 |
| 29 | The NASA Astrophysics Data System: Architecture. <i>Astronomy and Astrophysics</i> , 2000 , 143, 85-109 | | 13 |
| 28 | The NASA Astrophysics Data System: Data holdings. <i>Astronomy and Astrophysics</i> , 2000 , 143, 111-135 | | 13 |
| 27 | The Updated Zwicky Catalog (UZC). <i>Publications of the Astronomical Society of the Pacific</i> , 1999 , 111, 438-452 | 4.5 | 366 |
| 26 | The Dynamics of Poor Systems of Galaxies. <i>Astrophysical Journal</i> , 1999 , 518, 69-93 | 4.7 | 64 |
| 25 | The Mass Profile of the Coma Galaxy Cluster. <i>Astrophysical Journal</i> , 1999 , 517, L23-L26 | 4.7 | 100 |
| 24 | State and disturbance estimation for nonlinear systems affine in the unmeasured variables. <i>Computers and Chemical Engineering</i> , 1998 , 22, 1441-1459 | 4 | 25 |

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|----|--|-----|-----|
| 23 | RVSAO 2.0: Digital Redshifts and Radial Velocities. <i>Publications of the Astronomical Society of the Pacific</i> , 1998 , 110, 934-977 | 5 | 398 |
| 22 | Control of Oscillating Microbial Cultures Described by Population Balance Models. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 4059-4070 | 3.9 | 25 |
| 21 | The Southern Sky Redshift Survey. <i>Astronomical Journal</i> , 1998 , 116, 1-7 | 4.9 | 130 |
| 20 | The Century Survey: A Deeper Slice of the Universe. <i>Astronomical Journal</i> , 1997 , 114, 2205 | 4.9 | 71 |
| 19 | Habituating Control for Nonsquare Nonlinear Processes. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 4067-4077 | 3.9 | 24 |
| 18 | The Lumpy Cluster Abell 1185. <i>Astronomical Journal</i> , 1996 , 111, 64 | 4.9 | 12 |
| 17 | A Medium-deep Survey of a Minislice at the North Galactic Pole. II. The Data. <i>Astrophysical Journal, Supplement Series</i> , 1996 , 104, 199 | 8 | 6 |
| 16 | The NASA Astrophysics Data System: A Heterogeneous Distributed Data Environment. <i>Data and Knowledge in A Changing World</i> , 1996 , 123-130 | | |
| 15 | The NASA Technical Report Server. <i>Internet Research</i> , 1995 , 5, 25-36 | 4.8 | 12 |
| 14 | Redshifts for Fainter Galaxies in the First CFA Slice. III. To the Zwicky Catalog Limit. <i>Astronomical Journal</i> , 1995 , 109, 2368 | 4.9 | 12 |
| 13 | A medium-deep redshift survey of a minislice at the north Galactic pole. <i>Astrophysical Journal</i> , 1994 , 437, 560 | 4.7 | 22 |
| 12 | A complete southern sky redshift survey. <i>Astrophysical Journal</i> , 1994 , 424, L1 | 4.7 | 123 |
| 11 | CCD calibration of the magnitude scale for the Southern Sky Redshift Survey Extension galaxy sample. <i>Astronomical Journal</i> , 1993 , 106, 676 | 4.9 | 14 |
| 10 | Advice from the Oracle: Really Intelligent Information Retrieval. <i>Astrophysics and Space Science Library</i> , 1993 , 21-28 | 0.3 | 3 |
| 9 | The velocity-distance relation for galaxies on a bubble. <i>Astrophysical Journal</i> , 1992 , 395, 347 | 4.7 | 17 |
| 8 | A cognitive system for astronomical image interpretation. <i>Pattern Recognition Letters</i> , 1990 , 11, 507-515 | 4.7 | 3 |
| 7 | Redshifts for fainter galaxies in the first CFA survey slice. II. <i>Astronomical Journal</i> , 1990 , 100, 1405 | 4.9 | 7 |
| 6 | A combined optical/X-ray study of the Galaxy cluster Abell 2256. <i>Astrophysical Journal</i> , 1989 , 336, 77 | 4.7 | 46 |

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| 5 | Automated Classification of Resolved Galaxies 1989 , 121-128 | | 1 |
| 4 | Tests of Reduction and Analysis Algorithms for Astronomical Images 1989 , 155-157 | | |
| 3 | Astronomical Object Classification. <i>Machine Intelligence and Pattern Recognition</i> , 1988 , 317-328 | | 1 |
| 2 | The kinematics and dynamics of the rich cluster of galaxies Abell 539. <i>Astronomical Journal</i> , 1988 , 96, 1775 | 4.9 | 22 |
| 1 | The Galaxy Distribution and the Large-Scale Structure of the Universe. <i>Annals of the New York Academy of Sciences</i> , 1986 , 470, 123-135 | 6.5 | |