

# Karl Gebhardt

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6431213/publications.pdf>

Version: 2024-02-01

61  
papers

12,060  
citations

147801

31  
h-index

161849

54  
g-index

61  
all docs

61  
docs citations

61  
times ranked

6087  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | The Demography of Massive Dark Objects in Galaxy Centers. <i>Astronomical Journal</i> , 1998, 115, 2285-2305.  | 4.7  | 3,145     |
| 2  | A Relationship between Nuclear Black Hole Mass and Galaxy Velocity Dispersion. <i>Astrophysical Journal</i> , 2000, 539, L13-L16.  | 4.5  | 3,004     |
| 3  | THE $M_{\text{BH}}$ AND $M_{\text{L}}$ RELATIONS IN GALACTIC BULGES, AND DETERMINATIONS OF THEIR INTRINSIC SCATTER. <i>Astrophysical Journal</i> , 2009, 698, 198-221.   | 4.5  | 1,220     |
| 4  | Measures of location and scale for velocities in clusters of galaxies - A robust approach. <i>Astronomical Journal</i> , 1990, 100, 32.  | 4.7  | 1,119     |
| 5  | The Masses of Nuclear Black Holes in Luminous Elliptical Galaxies and Implications for the Space Density of the Most Massive Black Holes. <i>Astrophysical Journal</i> , 2007, 662, 808-834.                         | 4.5  | 345       |
| 6  | Axisymmetric Dynamical Models of the Central Regions of Galaxies. <i>Astrophysical Journal</i> , 2003, 583, 92-115.  | 4.5  | 324       |
| 7  | Two ten-billion-solar-mass black holes at the centres of giant elliptical galaxies. <i>Nature</i> , 2011, 480, 215-218.  | 27.8 | 305       |
| 8  | ANCIENT LIGHT FROM YOUNG COSMIC CITIES: PHYSICAL AND OBSERVATIONAL SIGNATURES OF GALAXY PROTO-CLUSTERS. <i>Astrophysical Journal</i> , 2013, 779, 127.   | 4.5  | 236       |
| 9  | Axisymmetric, Three-Integral Models of Galaxies: A Massive Black Hole in NGC 3379. <i>Astronomical Journal</i> , 2000, 119, 1157-1171.   | 4.7  | 210       |
| 10 | The Centers of Early-Type Galaxies With HST. III. Non-Parametric Recovery of Stellar Luminosity Distribution. <i>Astronomical Journal</i> , 1996, 112, 105.  | 4.7  | 205       |
| 11 | An over-massive black hole in the compact lenticular galaxy NGC 1277. <i>Nature</i> , 2012, 491, 729-731.  | 27.8 | 179       |
| 12 | THE HETDEX PILOT SURVEY. II. THE EVOLUTION OF THE $\text{Ly}\alpha$ ESCAPE FRACTION FROM THE ULTRAVIOLET SLOPE AND LUMINOSITY FUNCTION OF 1.9 <math>z</math> 3.8 LAEs. <i>Astrophysical Journal</i> , 2011, 736, 31. | 4.5  | 152       |
| 13 | THE HETDEX PILOT SURVEY. I. SURVEY DESIGN, PERFORMANCE, AND CATALOG OF EMISSION-LINE GALAXIES. <i>Astrophysical Journal</i> , Supplement Series, 2011, 192, 5.   | 7.7  | 134       |
| 14 | Surface Brightness Profiles of Galactic Globular Clusters from Hubble Space Telescope Images. <i>Astronomical Journal</i> , 2006, 132, 447-466.  | 4.7  | 126       |
| 15 | DYNAMICAL MEASUREMENTS OF BLACK HOLE MASSES IN FOUR BRIGHTEST CLUSTER GALAXIES AT 100 Mpc. <i>Astrophysical Journal</i> , 2012, 756, 179.  | 4.5  | 109       |
| 16 | DWARF GALAXY DARK MATTER DENSITY PROFILES INFERRED FROM STELLAR AND GAS KINEMATICS. <i>Astrophysical Journal</i> , 2014, 789, 63.  | 4.5  | 108       |
| 17 | THE HETDEX PILOT SURVEY. V. THE PHYSICAL ORIGIN OF $\text{Ly}\alpha$ EMITTERS PROBED BY NEAR-INFRARED SPECTROSCOPY. <i>Astrophysical Journal</i> , 2014, 791, 3.   | 4.5  | 82        |
| 18 | EFFECT OF A DARK MATTER HALO ON THE DETERMINATION OF BLACK HOLE MASSES. <i>Astrophysical Journal</i> , 2011, 729, 21.  | 4.5  | 74        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | HUNTING FOR SUPERMASSIVE BLACK HOLES IN NEARBY GALAXIES WITH THE HOBBY&#x201c;EBERLY TELESCOPE. <i>Astrophysical Journal, Supplement Series</i> , 2015, 218, 10.                                 | 7.7 | 69        |
| 20 | DISCOVERY OF A LARGE NUMBER OF CANDIDATE PROTOCLUSTERS TRACED BY $\sim 15$ Mpc-SCALE GALAXY OVERDENSITIES IN COSMOS. <i>Astrophysical Journal Letters</i> , 2014, 782, L3.                       | 8.3 | 67        |
| 21 | A STELLAR DYNAMICAL MEASUREMENT OF THE BLACK HOLE MASS IN THE MASER GALAXY NGC 4258. <i>Astrophysical Journal</i> , 2009, 693, 946-969.  | 4.5 | 62        |
| 22 | The Hobby&#x201c;Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections*. <i>Astrophysical Journal</i> , 2021, 923, 217.                                     | 4.5 | 55        |
| 23 | The HETDEX Instrumentation: Hobby&#x201c;Eberly Telescope Wide-field Upgrade and VIRUS. <i>Astronomical Journal</i> , 2021, 162, 298.  | 4.7 | 52        |
| 24 | A $5 \text{--} 10 M_{\odot}$ BLACK HOLE IN NGC 1277 FROM ADAPTIVE OPTICS SPECTROSCOPY. <i>Astrophysical Journal</i> , 2016, 817, 2.  | 4.5 | 50        |
| 25 | The structural and dynamical properties of compact elliptical galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 468, 4216-4245.   | 4.4 | 49        |
| 26 | Gemini/GMOS spectroscopy of the spheroid and globular cluster system of NGC 3923. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 385, 40-52.                                   | 4.4 | 48        |
| 27 | THE HETDEX PILOT SURVEY. IV. THE EVOLUTION OF [O II] EMITTING GALAXIES FROM $z \sim 0.5$ TO $z \sim 0$ . <i>Astrophysical Journal</i> , 2013, 769, 83.   | 4.5 | 47        |
| 28 | MRK 1216 and NGC 1277 &#x201c; an orbit-based dynamical analysis of compact, high-velocity dispersion galaxies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 1792-1816. | 4.4 | 42        |
| 29 | THE BLACK HOLE IN THE COMPACT, HIGH-DISPERSION GALAXY NGC 1271. <i>Astrophysical Journal</i> , 2015, 808, 183.   | 4.5 | 40        |
| 30 | THE VIRUS-P EXPLORATION OF NEARBY GALAXIES (VENGA): THE $X$ - $CO$ GRADIENT IN NGC 628. <i>Astrophysical Journal</i> , 2013, 764, 117.   | 4.5 | 36        |
| 31 | THE BLACK HOLE MASS IN THE BRIGHTEST CLUSTER GALAXY NGC 6086. <i>Astrophysical Journal</i> , 2011, 728, 100.   | 4.5 | 32        |
| 32 | Re-evaluation of the central velocity-dispersion profile in NGC 6388. <i>Astronomy and Astrophysics</i> , 2015, 581, A1.   | 5.1 | 32        |
| 33 | VARIATIONS IN A UNIVERSAL DARK MATTER PROFILE FOR DWARF SPHEROIDALS. <i>Astrophysical Journal Letters</i> , 2013, 775, L30.  | 8.3 | 29        |
| 34 | Bayesian Redshift Classification of Emission-line Galaxies with Photometric Equivalent Widths. <i>Astrophysical Journal</i> , 2017, 843, 130.  | 4.5 | 26        |
| 35 | Galaxy redshift surveys with sparse sampling. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 030-030.   | 5.4 | 23        |
| 36 | A Black Hole Mass Determination for the Compact Galaxy Mrk 1216. <i>Astrophysical Journal</i> , 2017, 835, 208.  | 4.5 | 23        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Unbiased Cosmological Parameter Estimation from Emission-line Surveys with Interlopers. <i>Astrophysical Journal</i> , 2019, 876, 32.   | 4.5 | 19        |
| 38 | First HETDEX Spectroscopic Determinations of Ly $\alpha$ and UV Luminosity Functions at $z = 2$ : Bridging a Gap between Faint AGNs and Bright Galaxies. <i>Astrophysical Journal</i> , 2021, 922, 167.                     | 4.5 | 19        |
| 39 | Constraining cosmology with big data statistics of cosmological graphs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 5972-5986.  | 4.4 | 16        |
| 40 | The massive dark halo of the compact early-type galaxy NGC 1281. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 538-553.   | 4.4 | 15        |
| 41 | Correcting correlation functions for redshift-dependent interloper contamination. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3187-3206.  | 4.4 | 15        |
| 42 | Surface Brightness Profile of Lyman- $\alpha$ Halos out to 320 kpc in HETDEX. <i>Astrophysical Journal</i> , 2022, 929, 90.   | 4.5 | 15        |
| 43 | Dynamical Analysis of the Dark Matter and Central Black Hole Mass in the Dwarf Spheroidal Leo I. <i>Astrophysical Journal</i> , 2021, 921, 107.   | 4.5 | 14        |
| 44 | VIRUS: status and performance of the massively replicated fiber integral field spectrograph for the upgraded Hobby-Eberly Telescope. , 2018, , .  |     | 12        |
| 45 | The HETDEX Survey: The Ly $\alpha$ Escape Fraction from 3D-HST Emission-Line Galaxies at $z \sim 2$ . <i>Astrophysical Journal</i> , 2021, 912, 100.  | 4.5 | 11        |
| 46 | An ALMA Gas-dynamical Mass Measurement of the Supermassive Black Hole in the Local Compact Galaxy UGC 2698. <i>Astrophysical Journal</i> , 2021, 919, 77.   | 4.5 | 11        |
| 47 | Detection of Lyman Continuum from $3.0 < z < 3.5$ Galaxies in the HETDEX Survey. <i>Astrophysical Journal</i> , 2021, 920, 122.   | 4.5 | 11        |
| 48 | Completion and performance of the Hobby-Eberly Telescope wide field upgrade. , 2018, , .  |     | 9         |
| 49 | Cosmological 3D H I Gas Map with HETDEX Ly $\alpha$ Emitters and eBOSS QSOs at $z \sim 2$ : IGM Galaxy/QSO Connection and a $\sim 440$ Mpc Scale Giant H II Bubble Candidate. <i>Astrophysical Journal</i> , 2020, 903, 24. | 4.5 | 9         |
| 50 | The Stars of the HETDEX Survey. I. Radial Velocities and Metal-poor Stars from Low-resolution Stellar Spectra. <i>Astrophysical Journal</i> , 2021, 911, 108.   | 4.5 | 8         |
| 51 | THE BLACK HOLE MASS AND THE STELLAR RING IN NGC 3706. <i>Astrophysical Journal</i> , 2014, 781, 112.  | 4.5 | 6         |
| 52 | Statistics of Two-point Correlation and Network Topology for Lyman Alpha Emitters at $z \sim 2.67$ . <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .  | 4.4 | 3         |
| 53 | Joint Discussion 6 Neutron stars and black holes in star clusters. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 215-243.   | 0.0 | 2         |
| 54 | Intermediate-mass black holes in globular clusters: observations and simulations. <i>Proceedings of the International Astronomical Union</i> , 2014, 10, 181-188.   | 0.0 | 2         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | VIRUS characterization development and results from first batches of delivered units. Proceedings of SPIE, 2016, , .   | 0.8 | 2         |
| 56 | Central Dynamics of Globular Clusters: the Case for a Black Hole in $\omega$ Centauri. Proceedings of the International Astronomical Union, 2007, 3, 341-345.      | 0.0 | 1         |
| 57 | Gas inflows in the polar ring of NGC 4111: the birth of an AGN. Monthly Notices of the Royal Astronomical Society, 2022, 512, 2556-2572.                           | 4.4 | 1         |
| 58 | The Halo Mass Distribution of Field and Cluster Early-Type Galaxies. Symposium - International Astronomical Union, 2004, 220, 175-176.                             | 0.1 | 0         |
| 59 | Adaptive Optics-Based Measurements of the Black Hole in Abell 2162 "BCG. Proceedings of the International Astronomical Union, 2009, 5, 208-208.                    | 0.0 | 0         |
| 60 | Intermediate Mass Black Holes in Galactic Globular Clusters. , 2010, , .   |     | 0         |
| 61 | Intermediate-mass black holes in globular clusters: observations and simulations - Update. Proceedings of the International Astronomical Union, 2015, 12, 240-245. | 0.0 | 0         |