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The bibliographical entries for *Individual Stars* and *Collections of Data*, as well as a few *General* entries, are categorized according to the following coding scheme. Data from archives or databases, or previously published, are identified with an asterisk. The observation codes in the first four groups may be followed by one of the following wavelength codes.

- g. γ -ray. i. infrared. m. microwave. o. optical
 r. radio u. ultraviolet x. x-ray

1. Photometric data

- a. CCD b. Photoelectric c. Photographic d. Visual

2. Spectroscopic data

- a. Radial velocities b. Spectral classification c. Line identification d. Spectrophotometry

3. Polarimetry

- a. Broad-band b. Spectropolarimetry

4. Astrometry

- a. Positions and proper motions b. Relative positions only c. Interferometry

5. Derived results

- a. Times of minima b. New or improved ephemeris, period variations
 c. Parameters derivable from light curves d. Elements derivable from velocity curves
 e. Absolute dimensions, masses f. Apsidal motion and structure constants
 g. Physical properties of stellar atmospheres h. Chemical abundances
 i. Accretion disks and accretion phenomena j. Mass loss and mass exchange
 k. Rotational velocities

6. Catalogues, discoveries, charts

- a. Catalogues b. Discoveries of new binaries and novae
 c. Identification of optical counterparts of γ -ray, x-ray, IR, or radio sources d. Finding charts

7. Observational techniques

- a. New instrument development b. Observing techniques
 c. Reduction procedures d. Data-analysis techniques

8. Theoretical investigations

- a. Structure of binary systems b. Circumstellar and circumbinary matter
 c. Evolutionary models d. Loss or exchange of mass and/or angular momentum

9. Statistical investigations

10. Miscellaneous

- a. Abstract b. Addenda or errata

Abbreviations

AD	accretion disk	IP	intermediate polar	RV	radial velocity
BH	black hole	LC	light curve	SB	spectroscopic binary
CB	close binary	LMXB	low-mass x-ray binary	WD	white dwarf
CV	cataclysmic variable	NS	neutron star	WR	Wolf-Rayet star
EB	eclipsing binary	PSR	pulsar		
HMXB	high-mass x-ray binary	QPO	quasi-periodic oscillation		

Individual Stars

Z And	<i>Bollimpalli, D.A., Hameuri, J.-M., Lasota, J.-P.</i> 2018, MNRAS 481, 5422. (5ij, 8ad) Disc instabilities and nova eruptions.
AW And	<i>Parimucha, Š. et al.</i> (5 authors) 2018, RAA 18, 47. (1acdo, 5abf) Period variations of the Algol-type EB
CN And	<i>Yildirim, M.F., Aliçavuş, F., Soyduğan, F.</i> 2019, RAA 19, 10. (1ao, 5abcdej) Shallow contact binary with a possible tertiary component.
V704 And	<i>Weil, K.E., Thorsteinson, J.R., Haberl, F.</i> 2018, AJ 156, 231. (1ao, 2ao, 5cd) CV of VY Scl type.
UU Aqr	<i>Bruch, A.</i> 2019, IBVS 6257. (1a, 5b) Variations on a time-scale of days.
V1343 Aql (SS 433)	<i>Bowler, M.G.</i> 2018, A&A 619, L4. Two robust mass ratio determinations. <i>Cherepashchuk, A.M., Pstnov, K.A., Belinski, A.A.</i> 2018, MNRAS 479, 4844. (5ij, 8abd) Possible Roche overflow, X-ray eclipses and double-peak H Brackett lines suggest that the HMXB is hosting a superaccreting BH. <i>Cherepashchuk, A.M. et al.</i> (5 authors) 2018, ARep 62, 747 (2a, 5d) 40-year spectroscopic monitoring and kinematic model parameter stability. <i>Marti, J. et al.</i> (6 authors) 2018, A&A 619, A40. (4cr, 8b) The radio jets at millimeter wavelengths. <i>Waisberg, I. et al.</i> (5 authors) 2019, A&A 623, A47. (4ci, 5ij) Super-Keplerian equatorial outflows and circumbinary disk ejection. Xing, Y. et al. (5 authors) 2019 ApJ 872, 24. (1g, 2g) Fermi observations of the microquasar's jets.
V1413 Aql	<i>Tatarnikova, A.A. et al.</i> (5 authors) 2018, ALet 44, 803. (1a) Quiescent and active states I: Photometric activity criterion and the detection of a secondary minimum.
V1487 Aql (GRS 1915+105)	<i>Weng, S.-S. et al.</i> (5 authors) 2018, ApJ 865, 19. (1dx) Statistical analysis of the heartbeat behavior.
V801 Ara (4U 1636–536)	<i>Beri, A. et al.</i> (15 authors) 2019, MNRAS 482, 4397. (1x, 2c, 5cgi) Rapid-succession thermonuclear X-ray bursts.
V821 Ara (GX 339-4)	<i>Islam, N., Zdziarski, A.A.</i> 2018, MNRAS 481, 4513. (1rx, 5cg) Radio and bolometric flux correlations. <i>Malzac, J. et al.</i> (21 authors) 2018, MNRAS 480, 2054. (1aiox, 2dx, 5i, 8b) A jet model to explain the fast IR variability of the BH binary.
α Aur	<i>Sablowski, D.P. et al.</i> (4 authors) 2019, A&A 622, L11. (2do, 5h) $^{12}\text{C}/^{13}\text{C}$ isotope ratio revised.
ϵ Aur	<i>Parthasarathy, M., Muneer, S.</i> 2019, IBVS 6258. (5e) Distance, luminosity and evolutionary status from GAIA DR2 parallax.
RW Aur	Gárate, M. et al. (4 authors) 2019 ApJ 871, 53. (8ab) LC dimming due to dust accretion preceding an outburst?
GU Boo	<i>Wolf, M. et al.</i> (13 authors) 2018, A&A 620, A72. (5ab) Possible substellar companion in the low-mass EB.
CI Cam	<i>Bartlett, E.S., Clark, J.S., Negueruela, I.</i> 2019, A&A 622, A93. (1x, 2x, 5j) The first sgB[e]-HMXB twenty years on: A supernova imposter in our own Galaxy?
TU CMa	<i>Mkrtichian, D.E.</i> 2019, IBVS 6259. (5c) Detection of a δ -Scuti component.
DE CVn	<i>Han, Z.-T. et al.</i> (11 authors) 2018, ApJ 868, 53. (1ao) Post-common envelope binary with a circumbinary disk and giant planet.

EF CVn	<i>Xia, Q.-Q. et al.</i> (4 authors) 2018, PASJ 70, 104. (1ao, 5abcj) The first photometric investigation and period study of the W UMa binary.
EH CVn	<i>Xia, Q.-Q. et al.</i> (4 authors) 2018, PASJ 70, 104. (1ao, 5abcj) The first photometric investigation and period study of the W UMa binary.
FV CVn	<i>Liao, W.-P., Sarotsakulchai, T.</i> 2019, PASP 131, 014202. (1ao, 5abc) W UMa system with third body.
η Car	<i>Sanchez-Bermudez, J. et al. (the GRAVITY Collaboration)</i> (134 authors) 2018, A&A 618, A125. (4c, 5j) GRAVITY chromatic imaging of the core: milli-arcsecond resolution imaging of the wind-wind collision zone through the Br γ and HeI 2s-2p lines. <i>Smith, N. et al.</i> (10 authors) 2018, MNRAS 480, 1466. (1aio, 2abcdo, 5bj, 8abcd) Great eruption light echo evolution reveals a two-stage shock-powered event.
V454 Car	<i>Butland, R.J. et al.</i> (7 authors) 2019, MNRAS 482, 2644. (1ao, 2abc, 5abcdeg) Absolute parameters from photometry and spectroscopy.
Cas A	<i>Fraser, M., Boubert, D.</i> 2019, ApJ 871, 92. (1ao*, 4a*, 9) Finding the surviving binary companion of the SN remnant with Gaia.
γ Cas	<i>Tsujimoto, M. et al.</i> (4 authors) 2018, PASJ 70, 109. (2cdx, 5gij) Suzaku and NuSTAR X-ray spectroscopy.
TW Cas	<i>Parimucha, Š. et al.</i> (5 authors) 2018, RAA 18, 47. (1acdo, 5abf) Period variations of the Algol-type EB.
IV Cas	<i>Parimucha, Š. et al.</i> (5 authors) 2018, RAA 18, 47. (1acdo, 5abf) Period variations of the Algol-type EB.
V635 Cas (4U 0115+63)	<i>Reig, P., Blinov, D.</i> 2018, A&A 619, A19. (3bo, 5i) Warped disk during type II outbursts in the Be/XB. <i>Roy, J. et al.</i> (16 authors) 2019, ApJ 872, 33 (1x, 2x) \approx 1 and 2 mHz QPOs in the Be/XB during the 2015 outburst.
V705 Cas	<i>Shore, S.N. et al.</i> (4 authors) 2018, A&A 619, A104. (1ao, 2du) Spectroscopic diagnostics of dust formation and evolution in classical nova ejecta.
V1176 Cas	<i>Bagaev, L.A., Volkov, I.M., Nikolenko, I.V.</i> 2018, ARep 62, 664. (1ab, 5bce) Physical parameters of the EB.
V1224 Cas	<i>Wang, K. et al.</i> (6 authors) 2018, AJ 156, 187. (1ao, 2bo, 5ce) A δ Sct star-WD EB.
V495 Cen	<i>Rosales, J.A. et al.</i> (4 authors) 2019, MNRAS 483, 862. (8ac) Evolutionary process.
V593 Cen	<i>Zhao, E. et al.</i> (8 authors) 2019, ApJ 871, L10. (1ao, 5abce) Massive over-contact twins with 45% fill-out; third body probable.
V850 Cen (GX 304-1)	<i>Rouco Escorial, A., van den Eijnden, J., Wijnands, R.</i> 2018, A&A 620, L13. (2dx, 5i) Discovery of accretion-driven pulsations in the prolonged low X-ray luminosity state of the Be/X-ray transient.
V885 Cen (HD 101584)	<i>Olofsson, H. et al.</i> (11 authors) 2019, A&A 623, A153. (2cr, 5hj) Circumstellar characteristics and evolutionary status.
V380 Cep (HD 200775)	<i>Bisyarina, A.P. et al.</i> (4 authors) 2019, RAA 19, 36. (2aco, 5bg) Emission line variability in the optical spectra of the Herbig Be binary system.
T CrB	<i>Luna, G.J.M. et al.</i> (9 authors) 2018, A&A 619, A61. (1aou, 2dx, 5i) Dramatic change in the boundary layer of the symbiotic recurrent nova.
AR CrB	<i>Alton, K.B., Nelson, R.H.</i> 2018, MNRAS 479, 3197. (1ao, 2abo, 5abcde) LC-RV analysis and Roche modelling of the W UMa-type binary.

BP Cru (GX 301-2)	<i>Fürst, F. et al.</i> (9 authors) 2018, A&A 620, A153. (2dx, 5i) Multiple cyclotron line-forming regions in the HMXB. <i>Liu, J. et al.</i> (4 authors) 2018, MNRAS 480, 4746. Discovery of a pulsating Fe K α line probably related to a transient non-isotropic distribution of dense gas around the NS (e.g. an accretion stream induced by periastron passage) or from the illuminated surface of the donor star.
BZ Cru (HD 110432)	<i>Tsujimoto, M. et al.</i> (4 authors) 2018, PASJ 70, 109. (2cdx, 5gij) Suzaku and NuSTAR X-ray spectroscopy.
SS Cyg	<i>Aranzana, E. et al.</i> (5 authors) 2018, MNRAS 481, 2140. (1ao, 5cgi) Fourier analysis of LCs in quiescence.
CH Cyg	<i>Iijima, T., Naito, H., Narusawa, S.</i> 2019, A&A 622, A45. (2aco, 5ej) High-velocity equatorial mass ejections and some other spectroscopic phenomena of the symbiotic star in an active stage.
V404 Cyg (GS 2023+338)	<i>Alfonso-Garzón, J., et al.</i> (9 authors) 2018, A&A 620, A110. (1ao, 2dgx, 5i) Optical/X-ray correlations during the HMXB June 2015 outburst. <i>Sánchez, D.M. et al.</i> (21 authors) 2018, MNRAS 481, 2646. (2abc, 5dgi) A global study of wind-related optical features. <i>Tetarenko, A.J. et al.</i> (17 authors) 2019, MNRAS 482, 2950. (1amr, 5cg) Tracking the variable jets during the 2015 outburst. <i>Ziółkowski, J., Zdziarski, A.</i> 2018, MNRAS 480, 1580. (8abcd) Non-conservative mass transfer and donor evolution in the microquasar.
V507 Cyg	<i>Kato, T.</i> 2019, PASJ 71, 20. (1ao, 5ij) Z Cam-type dwarf nova exhibiting IW And-type phenomena.
V767 Cyg	<i>Avilés, A. et al.</i> (4 authors) 2018, RMxAA 54, 389. (1ao, 2ao, 5be) Determination of the CV orbital period and mass ratio.
V1357 Cyg (Cyg X-1)	<i>Axelsson, M., Done, C.</i> 2018, MNRAS 480, 751. (1x, 2d, 5ij, 8b) The observed variability power spectra in each energy channel of RXTE data help break the spectral degeneracies in BH binaries. Application to the hard state of the HMXB. <i>El Mellah, I. et al.</i> (4 authors) 2019, A&A 622, A189. (8bd) Formation of wind-captured disks in supergiant XBs. Consequences for Cygnus X-1. <i>Mahmoud, R.D., Done, C.</i> 2018, MNRAS 480, 4040. (1x, 2xd, 5i) A physical model for the spectral-timing properties of the accreting BH.
V1521 Cyg (Cyg X-3)	<i>Antokhin, I.I., Cherepashchuk, A.M.</i> 2019, ApJ 871, 244. (1xx*) Period change, possible third body detected. <i>Zdziarski, A.A. et al.</i> (9 authors) 2018, MNRAS 479, 4399. (1gr, 2gr, 5bi) High-energy γ -ray and radio emission.
V1676 Cyg (HD 190918) (WR 133)	<i>De Becker, M., Isequilla, N.L., Benaglia, P.</i> 2019, A&A 623, A163. (4cr, 5e) Hints about the multiplicity of the system based on multi-epoch radio observations.
V339 Del (Nova Del 2013)	<i>Kawakita, H. et al.</i> (5 authors) 2019, ApJ 872, 120. (2od) Early spatial distribution of nova ejecta. <i>Shore, S.N. et al.</i> (4 authors) 2018, A&A 619, A104. (1ao, 2du) Spectroscopic diagnostics of dust formation and evolution in the classical nova ejecta.
AB Dor	<i>Janson, M. et al.</i> (9 authors) 2018, A&A 620, A33. (4bo) Dynamical masses of M-dwarf binaries in young moving groups. II. Toward empirical mass-luminosity isochrones. The Ba/Bb orbit.
IM Eri	<i>Kato, T.</i> 2019, PASJ 71, 20. (1ao, 5ij) Z Cam-type dwarf nova exhibiting IW And-type phenomena.

YY Gem	<i>Kochukhov, O., Shulyak, D.</i> 2019, ApJ 873, 69. (3bb*, 5d) The magnetic field of the M-dwarf binary (3.44 and 3.15 kG). <i>Wolf, M. et al.</i> (13 authors) 2018, A&A 620, A72. (5ab) Possible substellar companion in the low-mass EB.
HZ Her (Her X-1)	<i>Leahy, D.A., Chen, Y.</i> 2019, ApJ 871, 152. (1x, 2x) AstroSat SXT observations of the XB PSR confirmed.
V838 Her	<i>Selvelli, P., Molaro, P., Izzo, L.</i> 2018, MNRAS 481, 2261. (1au, 2c, 5cdg) Absorption and emission features in the outburst spectra.
V934 Her (4U 1700+24)	<i>Hinkle, K.H. et al.</i> (6 authors) 2019, ApJ 872, 43. (2io*) IR spectroscopy of the symbiotic XB system (giant M + NS).
TT Hor	<i>Streamer, M. et al.</i> (4 authors) 2018, MNRAS 480, 1372. (1ao, 2ao, 5bcdekij, 8ac) Semi-detached system includes a δ Sct accretor. Possible presence of a wide companion.
V345 Lac	<i>Wolf, M. et al.</i> (9 authors) 2019, AcA 69, 63. (1a, 5abf) Triple eccentric EB.
48 Lib	<i>Ozuyar, D. et al.</i> (4 authors) 2018, PASA 35, e034. (1ao, 2co, 5bgj) Photometric and spectroscopic variability of the Be star and the relation between photometric variations and rotation.
QZ Lib	<i>Pala, A.F. et al.</i> (5 authors) 2018, MNRAS 481, 2523 (2abc, 5degi, 8c) A CV already evolved through the period minimum.
V407 Lup (ASASSN-16kt)	<i>Aydi, E. et al.</i> (22 authors) 2018, MNRAS 480, 572. (1aioux, 2abcdoux, 5abceij) Very fast nova erupting as an IP.
β Lyr	<i>Mourard, D. et al.</i> (26 authors) 2018, A&A 618, A112. (1ao, 2do, 4c, 5ei) Physical properties of system A and its opaque AD.
GU Mon	<i>Yang, Y., Yuan, H., Dai, H.</i> 2019, AJ 157, 111. (1ao, 1ao*, 2a*, 5abcde) Early-type binary with mass ratio near unity and IR excess.
PZ Mon	<i>Pakhomov, Yu.V. et al.</i> (7 authors) 2019, ALet 45, 156. (1ab, 5g) Cool spots on the surface of the active giant.
V616 Mon (1A 0620–00)	<i>Cherepashchuk, A.M. et al.</i> (7 authors) 2019, MNRAS 483, 1067. (1aio, 5cgi) Optical and J, K photometry in the passive and active states.
δ Mus	<i>Pourbaix, D., Boffin, H.M.J.</i> 2018, RMxAA 54, 355. (1ao, 1ao*, 5d) Revision of spectroscopic period gives agreement with Hipparcos astrometric orbit of the SB red giant primary.
QV Nor	<i>Hemphill, P.B. et al.</i> (10 authors) 2019, ApJ 873, 62. (2dx, 5bcg) New orbital ephemeris for the HMXB and evolving cyclotron line energy.
V381 Nor (XTE J1550–564)	<i>Varnier, P., Rodriguez, J.</i> 2018, ApJ 865, 113. (2dx) Search for harmonic relationships between QPOs.
τ Oph	<i>Branham, R.L.</i> 2018, Ap&SS 363, 252. (1do, 2ao, 5bd) New orbit.
RS Oph	<i>Bollimpalli, D.A., Hameuri, J-M., Lasota, J-P.</i> 2018, MNRAS 481, 5422. (5ij, 8ad) Disc instabilities and nova eruptions. <i>Zamanov, R.K. et al.</i> (10 authors) 2018, MNRAS 480, 1363. (1ao, 5ci) Simultaneous B - and V -band observations of the flickering variability.
V2293 Oph (GRS 1716–249)	<i>Bassi, T. et al.</i> (12 authors) 2019, MNRAS 482, 1587. (1grx, 5cgi) Study of the LMXB long outburst.
V2606 Oph (GRS 1739–278)	<i>Mereminskiy, I.A. et al.</i> (6 authors) 2019, MNRAS 482, 1392. (1x, 5bcgi) Temporal variability during the 2014 outburst.
GU Ori	<i>Zhou, X. et al.</i> (8 authors) 2018, PASJ 70, 87. (1ao, 5abc) Photometric investigation of the high metallicity contact binary.

V392 Ori	<i>Hong, K. et al.</i> (8 authors) 2019, AJ 157, 28. (1ao*, 2ad, 5cdeg) Spectroscopic study of semidetached EB with δ Sct-type pulsation.
AG Peg	<i>Zhekov, S.A., Tomov, T.V.</i> 2018, MNRAS 481, 5156. (1x, 5cg) The X-ray emission after the end of the 2015 outburst.
X Per	<i>Yatabe, F. et al.</i> (8 authors) 2018, PASJ 70, 89. (1x, 5bei) An application of the Ghosh & Lamb model to the accretion-powered X-ray PSR.
RT Per	<i>Khaliullina, A.I.</i> 2019, ARep 63, 182. (5b) A double wave in the EB orbital period variations.
AI Phe	<i>Kirkby-Kent, J.A. et al.</i> (8 authors) 2018, A&A 620, C5. Absolute parameters from WASP photometry (Corrigendum to 2016, A&A 591, A124).
SZ Psc	<i>Cao, D. et al.</i> (10 authors) 2019, MNRAS 482, 988. (2abc, 5dg) Prominence activation, optical flare, and post-flare loops.
TY Pup	<i>Sarotsakulchai, T. et al.</i> (9 authors) 2018, AJ 156, 199. (1ao, 5abc) Deep-contact binary with low mass ratio; candidate progenitor of a luminous red nova.
AR Pup	<i>Ertel, S. et al.</i> (17 authors) 2019, AJ 157, 110. (5ij) Resolved image of the AGB binary circumbinary disk.
T Pyx	<i>Pavana, M. et al.</i> (5 authors) 2019, A&A 622, A126. (2o, 3ao, 5j) Spectroscopic and polarization properties of the recurrent nova 2011 outburst.
YY Sgr	<i>Wolf, M. et al.</i> (9 authors) 2019, AcA 69, 63. (1a, 5abf) Triple eccentric EB.
V1082 Sgr	<i>Tovmassian, G. et al.</i> (6 authors) 2018, ApJ 869, 22. (1aio, 2dio, 5ei) The K2-type donor star fills only 70% of its Roche lobe.
V4580 Sgr (SAX J1808.4–3658)	<i>Di Salvo, T. et al.</i> (7 authors) 2019, MNRAS 483, 767. (1x, 5ceg) Broad-band spectrum during the 2015 outburst. <i>Pan, Y.Y. et al.</i> (6 authors) 2018, MNRAS 480, 692. (5i, 8b) Minimum magnetic field of the LMXB millisecond PSR calculated according to accretion. <i>Salmi, T., Nättilä, J., Poutanen, J.</i> 2018, A&A 618, A161. Bayesian parameter constraints for NS masses and radii using X-ray timing observations of accretion-powered millisecond PSRs.
V4641 Sgr (SAX J1819.3–2525)	<i>Muñoz-Darias, T., Torres, M.A.P., Garcia, M.R.</i> 2018, MNRAS 479, 3987. (2ao, 5ij) The low-luminosity AD wind of the BH transient.
V5668 Sgr	<i>Shore, S.N. et al.</i> (4 authors) 2018, A&A 619, A104. (1ao, 2du) Spectroscopic diagnostics of dust formation and evolution in classical nova ejecta.
V5855 Sgr	<i>Nelson, T. et al.</i> (10 authors) 2019, ApJ 872, 86. (1xg, 2xg) Detection of concurrent X-rays and γ -rays in the nova.
AR Sco	<i>Stiller, R.A. et al.</i> (6 authors) 2018, AJ 156, 150. (1ao, 5k) Spin-down of the CV WD component confirmed by high-time-resolution photometry.
V701 Sco	<i>Yang, Y., Yuan, H., Dai, H.</i> 2019, AJ 157, 111. (1ao*, 2a*, 5abcde) Early-type binary with mass ratio near unity and IR excess.
V818 Sco (Sco X-1)	<i>Motta, S.E., Fender, R.P.</i> 2019, MNRAS 483, 3686. (1rx, 5ag, 8a) Connection between accretion states and ultrarelativistic outflow formation.
V918 Sco (HD 149404)	<i>Rauw, G. et al.</i> (15 authors) 2019, A&A 621, A15. (1ao, 5acj) BRITe photometry of the massive post-RLOF system.
V1033 Sco (GRO J1655–40)	<i>Higginbottom, N. et al.</i> (6 authors) 2018, MNRAS 479, 3651. (2x, 5i, 8d) Radiation-hydrodynamic simulations of thermally driven disc winds in the LMXB.

V1101 Sco (GX 349+02)	<i>Coughenour, B.M. et al.</i> (4 authors) 2018, ApJ 867, 64. (2cdx) Spectra taken over entire range of spectral states.
AU Ser	<i>Alton, K.B., Nelson, R.H., Terrell, D.</i> 2018, IBVS 6256. (1a, 2a, 5abcde, 6d) Period analysis, Roche modeling and absolute parameters.
AY Sex (PSR J1023+0038)	<i>Yi, X. et al.</i> 2018, RAA 18, 127. (1bg, 2dg, 5gi) Possible modulated γ -ray emission from the transitional millisecond PSR binary.
CM Tau	<i>Fraser, M., Boubert, D.</i> 2019, ApJ 871, 92. (1ao*, 4a*, 9) Finding the surviving binary companion of the SN remnant with Gaia.
CT Tau	<i>Yang, Y., Yuan, H., Dai, H.</i> 2019, AJ 157, 111. (1ao, 1ao*, 2a*, 5abcde) Early-type binary with mass ratio near unity and IR excess.
GG Tau	<i>Aly, H., Lodato, G., Cazzoletti, P.</i> 2018, MNRAS 480, 4738. (8b) Misaligned circumbinary disc in very young system.
RW Tri	<i>Smak, J.</i> 2019, AcA 69, 79. (1a, 5ci) Negative superhumps and system parameters.
BX Tri	<i>Perdelwitz, V. et al.</i> (5 authors) 2018, A&A 619, A138. (2dux) X-ray and UV emission of the ultrashort-period, low-mass EB.
KV UMa (XTE J1118+480)	<i>Chatterjee, D. et al.</i> (4 authors) 2019, Ap&SS 364, 14. (1x, 2x, 5ei) Properties of the BH candidate with the TCAF solution during the jet activity-induced 2000 outburst.
GP Vel (Vel X-1)	<i>El Mellah, I. et al.</i> (4 authors) 2019, A&A 622, A189. (8bd) Formation of wind-captured disks in supergiant XBs, with consequences for Vela X-1.
HU Vel	<i>Fraser, M., Boubert, D.</i> 2019, ApJ 871, 92. (1ao*, 4a*, 9) Finding the surviving binary companion of the SN remnant with Gaia.
W Vir	<i>Baran, A.S. et al.</i> (12 authors) 2018, MNRAS 481, 2721 (1ao, 5abcefg) Pulsations and eclipse-time analysis.
QS Vir	<i>Latković, O. et al.</i> (6 authors) 2019, AJ 157, 28. (1aoi, 1ao*, 5abcg) Multicolour photometry of the dM+WD EB and long-term spot behaviour.
V406 Vir (SDSS J123813.73–033933.0)	<i>Pala, A.F. et al.</i> (24 authors) 2019, MNRAS 483, 1080. (1aoi, 2abc, 5cdegi) Evidence for mass accretion driven by spiral shocks.
UY Vol (EXO 0748–676)	<i>Psaradaki, I. et al.</i> (4 authors) 2018, A&A 620, A129. (2dx, 5i) Modelling the LMXB disc atmosphere.
DR Vul	<i>Wolf, M. et al.</i> (9 authors) 2019, AcA 69, 63. (1a, 5abf) Triple eccentric EB.
FY Vul	<i>Kato, T.</i> 2019, PASJ 71, 20. (1ao, 5ij) Z Cam-type dwarf nova exhibiting IW And-type phenomena.
V406 Vul (XTE J1859+226)	<i>Kimura, M., Done, C.</i> 2019, MNRAS 482, 626. (1x, 5cgi) Evolution of X-ray irradiation during the 1999-2000 outburst.

HR, HD, HDE, BD, CoD, CPD, SAO Objects

HR 978	<i>Griffin, R.F.</i> 2018, Observatory 138, 299. (2a, 5d).
HR 4830	(see BZ Cru)
HR 7345	<i>Farrington, C.D. et al.</i> (4 authors) 2018, AJ 156, 144. (2ao, 4c, 5de) Separated fringe-packet method with CHARA and RV observations to find orbit of very eccentric ($e = 0.93$) SB2 with inconvenient 11-month period.
HD 15013	<i>Griffin, R.F.</i> 2018, Observatory 138, 192. (2a, 5d) SB2.

HD 16082	<i>Griffin, R.F.</i> 2018, Observatory 138, 192. (2a, 5d) Very long P.
HD 16197	<i>Griffin, R.F.</i> 2018, Observatory 138, 192. (2a, 5d).
HD 18774 (HIP 14075)	<i>Masda, S., Al-Wardat, M.A., Pathan, J.M.</i> 2018, JApA 39, 58. (1ao, 5e) Stellar parameters of the binary system.
HD 18940 (HIP 14230)	<i>Masda, S., Al-Wardat, M.A., Pathan, J.M.</i> 2018, JApA 39, 58. (1ao, 5e) Stellar parameters of the binary system.
HD 30712	<i>Docobo, J.A. et al.</i> (4 authors) 2018, AJ 156, 185. (2a*, 4bo, 5e). Speckle interferometry and published RVs give improved three-dimensional orbit, masses and parallax.
HD 34700A	<i>Monnier, J.D. et al.</i> (17 authors) 2019, ApJ 872, 122. (3bi) Spiral arms and ring in the disk around the intermediate-mass binary.
HD 64596 (GSC 08135-03248)	<i>Bernhard, K. et al.</i> (6 authors) 2018, MNRAS 479 2909. (1ao, 5b, 6b) Be-type EB discovered in the ASAS-3 database.
HD 93129A	<i>Gruner, D. et al.</i> (9 authors) 2019, A&A 621, A63. (2bou, 5hj) A quantitative, multiwavelength analysis of the extreme O-type SB.
HD 93343	<i>Putkuri, C. et al.</i> (8 authors) 2018, A&A 618, A174. (2abo, 5dk) Non-synchronous rotations in the massive binary system.
HD 101584	(see V885 Cen)
HD 107208 (GSC 08975-00799)	<i>Bernhard, K. et al.</i> (6 authors) 2018, MNRAS 479 2909. (1ao, 5b, 6b) Be-type EB discovered in the ASAS-3 database.
HD 110432	(see BZ Cru)
HD 114882	<i>Docobo, J.A. et al.</i> (4 authors) 2018, AJ 156, 185. (2a*, 4bo, 5e). Speckle interferometry and published RVs give new three-dimensional orbit, masses and parallax.
HD 148937	<i>Wade, G.A. et al.</i> (13 authors) 2019, MNRAS 483, 2581. (2abc, 4c, 5cdeg) Evidence of an eccentric, high-mass binary.
HD 149404	(see V918 Sco)
HD 174123	<i>Griffin, R.F.</i> 2018, Observatory 139, 1. (2a, 5d) Very long P.
HD 183255	<i>Docobo, J.A. et al.</i> (4 authors) 2018, AJ 156, 185. (2a*, 4bo, 5e). Speckle interferometry and published RVs give improved three-dimensional orbit, masses and parallax.
HD 190918	(see V1676 Cyg)
HD 200775	(see V380 Cep)
HD 220687 (EPIC 245932119)	<i>Lee, J.W., Hong, K., Christiansen, M.H.</i> 2019, AJ 157, 17. (1ao, 5c) Photometric study of EB with δ Sct component.
CoD–35°9931 (MML 53)	<i>Gómez Maqueo Chew, Y. et al.</i> (10 authors) 2019, A&A 623, A23. (1ao, 2ao, 5cde) Fundamental properties of the pre-main sequence eclipsing stars and the mass of the tertiary.
CPD–63°2495 (PSR B1259–63)	<i>Chang, Z. et al.</i> (6 authors) 2018, RAA 18, 152. (1g, 5cj) The GeV emission during the last three periastron passages observed by Fermi-LAT. <i>Miller-Jones, J.C.A. et al.</i> (11 authors) 2018, MNRAS 479, 4849. (4abcr, 5ejj) Geometric distance and orbit from interferometric observations over the full 3.4 year orbit.

Objects with names including RA and DEC

AX J0049.4–7323 (SXP 756)	<i>Ducci, L. et al.</i> (8 authors) 2019, A&A 621, A94. (1oux, 5i) X-ray and optical monitoring of the Be/XB December 2017 outburst.
4U 0115+63	(see V635 Cas)
2MASS J01170514–7326360 (SMC X-1)	<i>Dage, K.C. et al.</i> (6 authors) 2019, MNRAS 482, 337. (1x*, 5bcegi) Search for spin-superorbital correlation.
	<i>Kubota, M. et al.</i> (4 authors) 2018, ApJL 868, L26. (2cdx) Redshifted He-like Fe absorption line.
	<i>Ray, B., Pradhan, P., Paul, B.C.</i> 2018, RAA 18, 148. (1x, 2dx, 5i) Type II X-ray bursts.
4U 0142+61	<i>Makishima, K. et al.</i> (4 authors) 2019, PASJ 71, 15. (1x, 5bfi) A NuSTAR study of the 55 ks hard X-ray pulse-phase modulation in the magnetar.
Swift J0243.6+6124	<i>van den Eijnden, J. et al.</i> (8 authors) 2019, MNRAS 483, 4628. (1rx, 5cgi) A re-establishing jet during an X-ray re-brightening.
2MASS J03263887+4343246 (NSVS 4161544)	<i>Kjurkchieva, D. et al.</i> (4 authors) 2019, AJ 157, 73. (1ao, 2ao, 5cde) Simultaneous LC and RV solutions of the overcontact W UMa system show partial eclipses and yield masses and radii.
1SWASP J034501.24+493659.9	<i>Kjurkchieva, D. et al.</i> (4 authors) 2019, AJ 157, 73. (1ao, 2ao, 5cde) Simultaneous LC and RV solutions of the overcontact W UMa system show partial eclipses and yield masses and radii.
2MASS J04244260–0647313	<i>Durkan, S. et al.</i> (9 authors) 2018, A&A 618, A5. (2ao, 5d) RV survey of the spatially resolved, young low-mass binary.
2MASS J05221817–2507112 (NGTS J052218.2–250710.4)	<i>Casewell, S.L. et al.</i> (26 authors) 2018, MNRAS 481, 1897 (1ao, 2abc, 5abcdeg) A new low-mass EB from the Next Generation Transit Survey.
ASAS J052743–0359.7 (ADS 4022)	<i>Helminiak, K.G. et al.</i> (17 authors) 2019, A&A 622, A114. (1bo, 2aoi, 5cde) Orbital and physical parameters of EBs from the All-Sky Automated Survey catalogue. X. Three high-contrast systems with secondaries detected with IR spectroscopy.
2MASS J05301858–5358483	<i>Durkan, S. et al.</i> (9 authors) 2018, A&A 618, A5. (2ao, 5d, 6b) RV survey of the spatially resolved, young low-mass binary. Discovery of a C component.
1A 0620–00	(see V616 Mon)
ASAS J065134–2211.5	<i>Helminiak, K.G. et al.</i> (17 authors) 2019, A&A 622, A114. (1bo, 2aoi, 5cde) Orbital and physical parameters of EBs from the All-Sky Automated Survey catalogue. X. Three high-contrast systems with secondaries detected with IR spectroscopy.
ASAS J073507–0905.7	<i>Helminiak, K.G. et al.</i> (17 authors) 2019, A&A 622, A114. (1bo, 2aoi, 5cde) Orbital and physical parameters of EBs from the All-Sky Automated Survey catalogue. X. Three high-contrast systems with secondaries detected with IR spectroscopy.
EXO 0748–676	(see UY Vol)
XMMU J083850.3–282756	<i>Cho, P.B., Halpern, J.P., Bogdanov, S.</i> 2018, ApJ 866, 71. (1ao) Variable heating and flaring of the companion.
1FGL J1018.6–5856	<i>Marcote, B. et al.</i> (5 authors) 2018, A&A 619, A26. (4cr) Refining the origins of the γ -ray binary.
PSR J1023+0038	(see AY Sex)

2MASS J10364483+1521394	<i>Calissendorff, P. et al.</i> (9 authors) 2018, A&A 618, C6. The discrepancy between dynamical and theoretical mass in the triplet-system (Corrigendum to 2017, A&A 604, A82).
PSR J1048+2339	<i>Cho, P.B., Halpern, J.P., Bogdanov, S.</i> 2018, ApJ 866, 71. (1ao, 2dx) Strong orbital modulation.
XTE J1118+480	(see KV UMa)
PSR J1141–6545	<i>Venkatraman Krishnan, V. et al.</i> (8 authors) 2019, ApJ 873, L15. (4cr) Relativistic spin precession in the binary PSR.
2MASS J11553339+3544399	<i>Zhang, B. et al.</i> (10 authors) 2019, PASP 131, 034201. (1ao, 5abce) Detached EB with $P \leq 0.2$ days; light-time effect from third body.
2MASS J12214222+2500569 (Melotte 111 AV 1224)	<i>Fox-Machado, L. et al.</i> (5 authors) 2018, PASP 130, 104201. (1ao, 2ao, 5abcde) Coma cluster short-period SB1 with shallow eclipses.
SDSS J123813.73–033933.0	(see V406 Vir)
PSR B1259–63	(see CPD–63°2495)
PG 1302–102	<i>Kovačević, A.B. et al.</i> (4 authors) 2019, ApJ 871, 32 (1o*) Optical variability of the supermassive BH binary candidate.
Swift J1357.2–0933	<i>Mondal, S., Chakrabarti, S.K.</i> 2019, MNRAS 483, 1178. (1gx, 5cgi) A detailed spectral study of the 2017 outburst.
SDSS J141126.20+200911.1	<i>Casewell, S.L. et al.</i> (6 authors) 2018, MNRAS 481, 5216. (1ai, 5ceg) Direct detection of the irradiated brown dwarf.
PSR J1417–4402	<i>De Vito, M.A., Horvarth, J.E., Benvenuto, O.G.</i> 2019, MNRAS 483, 4495. (8abc) The present evolutionary status.
MAXI J1535–571	<i>Baglio, M.C. et al.</i> (32 authors) 2018, ApJ 867, 114. (1aio, 2dx) Evidence of a wildly flickering jet. <i>Huang, Y. et al.</i> (122 authors) 2018, ApJ 866, 122. (2dx) QPOs evidence of high inclination. <i>Nakahira, S. et al.</i> (10 authors) 2018, PASJ 70, 95. (1x, 2dx, 5ci, 6b) Discovery and state transitions of the new Galactic BH candidate. <i>Stevens, A.L. et al.</i> (20 authors) 2018, ApJL 865, L15. (2dx) QPOs from a precessing jet-like corona illuminating the AD. <i>Tao, L. et al.</i> (10 authors) 2018, MNRAS 480, 4443. (1gx, 2gxd, 5i) Monitoring of the bright X-ray transient during the hard to soft state transit.
4U 1538–522	(see QV Nor)
XTE J1550–564	(see V381 Nor)
CXOU J160103.1–513353	<i>Doroshenko, V., Suleimanov, V., Santangelo, A.</i> 2018, A&A 618, A76. (2dx, 5h) Another central compact object with a carbon atmosphere?
4U 1608–52	(see QX Nor)
PSR J1628–3205	<i>Cho, P.B., Halpern, J.P., Bogdanov, S.</i> 2018, ApJ 866, 71. (1ao) Variable heating and flaring of the companion.
4U 1630–47 (Nor X-1)	<i>Gatuzz, E. et al.</i> (4 authors) 2019, MNRAS 482, 2597. (1x, 2c, 5cgi) The disappearance of the wind. <i>Hori, T.</i> (5 authors) 2018, ApJ 869, 183 (2dx, 8ab) Thermally driven disk wind in the BH binary. <i>Pahari, M. et al.</i> (11 authors) 2018, ApJ 867, 86. (2cdx) Evidence of disk wind and rapidly spinning BH.
IGR J16320–4751	<i>García, F. et al.</i> (4 authors) 2018, A&A 618, A61. (2dx, 5i) Spectral evolution of the supergiant HMXB along its orbit using XMM-Newton.
4U 1636–536	(see V801 Ara)

GRO J1655–40	(see V1033 Sco)
Swift J1658.2–4242	<i>Xu, Y. et al.</i> (12 authors) 2018, ApJ 865, 18. (2cdx, 5i) High inclination likely.
MXB 1659–298	(see V2134 Pph)
4U 1700+24	(see V934 Her)
GRS 1716–249	(see V2293 Oph)
4U 1728–34	<i>Wang, D.-H., Zhang, C.-M., Qu, J.-L.</i> 2018, A&A 618, A181. (2dx, 5i) The kHz QPOs as a probe of the X-ray color-color diagram and AD structure for the atoll source.
GRS 1739–278	(see V2606 Oph)
H 1743–322	<i>Islam, N., Zdziarski, A.A.</i> 2018, MNRAS 481, 4513. (1rx, 5cg) Correlations between radio and bolometric fluxes.
GRO J1744–28	<i>Court, J.M.C. et al.</i> (11 authors) 2018, MNRAS 481, 2273. (1x, 5cgi) The evolution of X-ray bursts.
PSR J1748–2446A	<i>You, X.P. et al.</i> (5 authors) 2018, ApJ 867, 22. (2dr) Eclipses not seen at 3 GHz; depolarized pulses at some phases.
SAX J1748.9–2021	<i>Li, Z. et al.</i> (9 authors) 2018, A&A 620, A114. (2dx) Mixed H/He bursts in the LMXB during the spectral change of its 2015 outburst. <i>Pintore, F. et al.</i> (9 authors) 2018, MNRAS 479, 4084. (2dx, 5i) A faint outburst of the accreting millisecond X-ray PSR in NGC 6440. <i>Sharma, R., Jain, C., Dutta, A.</i> 2019, MNRAS 482, 1634. (1x, 5cegi) Study of the reflection spectra.
Swift J1753.5–0127	<i>Shaw, A.W. et al.</i> (8 authors) 2019, MNRAS 482, 1840. (1x, 5cegi) An analogue to Z Cam-type dwarf novae.
IGR J17591–2342	<i>Russell, T.D. et al.</i> (7 authors) 2018, ApJL 869, L16. (2dr, 2dx) Either very radio loud or very distant.
SAX J1808.4–3658	(see V4580 Sgr)
Swift J1816.7–1613	<i>Nabizadeh, A. et al.</i> (7 authors) 2019, A&A 622, A198. (1ai*x, 2x) Properties of the transient X-ray PSR and its optical companion.
SAX J1819.3–2525	(see V4641 Sgr)
MAXI J1820+070 (ASASSN-18ey)	<i>Shidatsu, M. et al.</i> (29 authors) 2018, ApJ 868, 54. (1aio, 2dx) Variability probably due to changes in the hot electron cloud. <i>Tucker, M.A. et al.</i> (25 authors) 2018, ApJL 867, L9. (1ao) Intrinsic variability several years prior to outburst. <i>Veledina, A. et al.</i> (11 authors) 2019, A&A 623, A75. (4ao, 5j) Evolving optical polarisation of the BH XB.
XTE J1859+226	(see V406 Vul)
2MASS J19013456+3854176 (KIC 3832716)	<i>Fedurco, M., Parimucha, Š.</i> 2018, Ap&SS 363, 267. (1ao, 5abckj, 8d) Double EB.
HESS J1912+101	<i>Reich, W., Sun, X.H.</i> 2019, RAA 19, 45. (3br, 6c) Polarised radio emission associated with the γ -ray source.
GRS 1915+105	(see V1487 Aql)
2MASS J19275256+3755399 (KIC 2715417)	<i>NegmEldin, M.A., Essam Elsayed, A., Yousef, S.M.</i> 2019, RAA 19, 25. (1ao, 5ace) Physical properties of the short period CB.
2MASS J19293751+4130469 (KIC 6206751)	<i>Lee, J.W., Park, J.-H.</i> 2018, MNRAS 480, 4693. (1ao, 2ao, 5bcde) Fundamental parameters for the first R CMa-type EB with γ Dor pulsations.
2MASS J19295968+4137449 (KIC 6287172)	<i>NegmEldin, M.A., Essam Elsayed, A., Yousef, S.M.</i> 2019, RAA 19, 25. (1ao, 5ace) Physical properties of the short period CB.

2MASS J19341402+4123432 (KIC 6048106)	<i>Ghadim, A.S., Lampens, P., Jassur, D.M.</i> 2018, <i>AcA</i> 68, 425. (1a, 5c) Pulsations and tidal splitting.
2MASS J19363311+4120225 (KIC 6050116)	<i>NegmEldin, M.A., Essam Elsayed, A., Yousef, S.M.</i> 2019, <i>RAA</i> 19, 25. (1ao, 5ace) Physical properties of the short period CB.
2MASS J20163382-0711456	<i>Durkan, S. et al.</i> (9 authors) 2018, <i>A&A</i> 618, A5.(2ao, 5d) RV survey of the spatially resolved, young low-mass binary.
GS 2023+338	(see V404 Cyg)
3FGL J2039.6-5618	<i>Ng, C.W. et al.</i> (5 authors) 2018, <i>ApJ</i> 867, 90. (2g) Evidence of orbital modulated γ -ray emission.
IPHASX J210204.7+471015	<i>Santamaria, E. et al.</i> (7 authors) 2019, <i>MNRAS</i> 483, 3773. (1ao, 2abc, 5cdeg, 7b) Measuring the expansion and age.
PSR J2234+0611	<i>Stovall, K. et al.</i> (33 authors) 2019, <i>ApJ</i> 870, 74 (3ar, 4cr, 5bc) Orbital parameters and evolutionary tests for the millisecond PSR and WD companion.
PSR J2241-5236	<i>An, H., Romani, R.W., Kerr, M.</i> 2018, <i>ApJL</i> 868, L8. (1g, 2dx) Evidence of intra-binary shock emission.
2MASS J23212116+3807563	<i>Khruslov, A.V. et al.</i> (4 authors) 2018, <i>PZ</i> 38, No. 4. (1a) New CV.
RX J2338+431	<i>Weil, K.E., Thorsteinson, J.R., Haberl, F.</i> 2018, <i>AJ</i> 156, 231. (1ao, 2ao, 5cd) CV of VY Scl type.

X-ray sources with constellation or galaxy names

Aql X-1	(see V1333 Aql)
Cen X-4	(see V822 Cen)
Cyg X-1	(see V1357 Cyg)
Cyg X-3	(see V1521 Cyg)
Her X-1	(see HZ Her)
Nor X-1	(see 4U 1630-47)
Sco X-1	(see V818 Sco)
Vel X-1	(see GP Vel)
M33 X-6	<i>Nikolaeva, S.M., Krivonos, R.A., Sazonov, S.Yu.</i> 2018, <i>ALet</i> 44, 593. (1x, 2x, 5gi) Broadband spectrum of the XB from NuSTAR and Swift-XRT data: an extragalactic Z-source?
M33 X-8	<i>Krivonos, R. et al.</i> (4 authors) 2018, <i>MNRAS</i> 480, 2357. (1x, 2xd, 5i) NuSTAR observations suggest the presence of a BH in a very high-state.
M81 X-6	<i>Jithesh, V., Misra, R.</i> 2018, <i>ApJ</i> 868, 125. (2dx) ULX spectral states dominated by relativistic disk emission.
M82 X-2	<i>Heida, M. et al.</i> (6 authors) 2019, <i>ApJ</i> 871, 231. (1ao*, 2dx*) Search for donor stars of the ULX PSR.
M101 ULX-1	<i>El Mellah, I., Sundqvist, J.O., Keppens, R.</i> 2019, <i>A&A</i> 622, L3. (8bd) Wind Roche lobe overflow a possible ULX mass-transfer mechanism.
NGC 300 ULX-1	<i>Vasilopoulos, G. et al.</i> (4 authors) 2018, <i>A&A</i> 620, L12. (2dx, 5ij) A test case for accretion torque theory.
NGC 925 ULX-1	<i>Pintore, E. et al.</i> (10 authors) 2018, <i>MNRAS</i> 479, 4271. (1aox, 2dx, 5i, 6d) Multiwavelength data suggest a typical super-Eddington accreting stellar BH classified as a ‘broadened disc’ ULX.

NGC 925 ULX-2	<i>Pintore, E. et al.</i> (10 authors) 2018, MNRAS 479, 4271. (1aox, 2dx, 5i, 6d) Multiwavelength data disfavour an intermediate-mass BH accreting at sub-Eddington rates.
NGC 5907 X-1	<i>Heida, M. et al.</i> (6 authors) 2019, ApJ 871, 231. (1aoo*, 2dx*) Search for donor stars of the ULX PSR.
NGC 5907 ULX-2	<i>Heida, M. et al.</i> (6 authors) 2019, ApJ 871, 231. (1aoo*, 2dx*) Search for donor stars of the ULX PSR.
NGC 7793 P13	<i>El Mellah, I., Sundqvist, J.O., Keppens, R.</i> 2019, A&A 622, L3. (8bd) Wind Roche lobe overflow a possible ULX mass-transfer mechanism.
SMC X-1	(see 2MASS J01170514–7326360)

Objects with other designations

ADS 4022	(see ASAS J052743–0359.7)
ASASSN-14dx	<i>Isogai, K. et al.</i> (11 authors) 2019, PASJ 71, 22. (1ao, 5i, 6b) Third-nearest WZ Sge-type dwarf nova candidate classified on the basis of Gaia DR2.
ASASSN-16kt	(see V407 Lup)
ASASSN-18ey	(see MAXI J1820+070)
EPIC 211759736	<i>Oláh, K. et al.</i> (18 authors) 2018, A&A 620, A189. (1ao, 2ao, 5cdgk) Eclipsing spotted giant star with K2 and historical photometry.
EPIC 219654213	<i>Eigmüller, P. et al.</i> (14 authors) 2018, MNRAS 480, 3864. (1ao, 2ao, 5bcde) Fundamental parameters for the F7V+M5V EB, with the transiting M-dwarf showing beaming effect.
EPIC 245932119	(see HD 220687)
EPIC 249432662	<i>Borkovits, T. et al.</i> (19 authors) 2019, MNRAS 483, 1934. (1ao, 2a, 5cdeg, 6b) Triply eclipsing hierarchical triple system.
GSC 08135-03248	(see HD 64596)
GSC 08975-00799	(see HD 107208)
GW170814	<i>Doctor, Z. et al.</i> (100 authors) 2019, ApJ 873, L24. (1aoi) A failed search for optical emission from the binary BH merger.
GW170817 (GRB 170817A) (AT2017gfo)	<i>Fishbach, M. et al.</i> (320 authors) 2019, ApJ 871, L13. (9) Standard siren measurement of the Hubble Constant. <i>Fraija, N., Caligula do E.S. Pedreira, A.C., Veres, P.</i> 2019, ApJ 871, 200. (2dg*o*x*, 4cr*, 8d) Shock-breakout material LC and a relativistic off-axis jet from the binary NS system. <i>Lamb, G.P. et al.</i> (12 authors) 2019, ApJ 870, L15. (1ao) Optical afterglow at one year post-merger. <i>Lan, M.-X. et al.</i> (4 authors) 2019, ApJ 870, 96. (8ab) Polarization with a 3D magnetic field. <i>Pankow, C.</i> 2018, ApJ 866, 60. (8a) Mass disparity suggests it was an outlier. <i>Punsly, B.</i> 2019, ApJ 871, L34. (8ab) Ejection models of the associated radio source. <i>Salafia, O.S. et al.</i> (4 authors) 2018, A&A 619, A18. (2dgioux) Interpreting GRB170817A as a giant flare from a jet-less double NS merger.
GW170819	<i>Fraija, N. et al.</i> (7 authors) 2019, ApJ 871, 123. (2dg*o*x*, 4cr*, 8) Modeling the off-axis emission and implications on ejecta magnetization.
GX 301-2	(see BP Cru)

GX 304-1	(see V850 Cen)
GX 339-4	(see V821 Ara)
GX 349+2	(see V1101 Sco)
HIP 14075	(see HD 18774)
HIP 14230	(see HD 18940)
JW 566	<i>Mairs, S. et al.</i> (10 authors) 2019, ApJ 871, 72. (1am) Strong submillimeter flare in the T Tauri binary.
KIC 2715417	(see 2MASS J19275256+3755399)
KIC 3832716	(see 2MASS J19013456+3854176)
KIC 6048106	(see 2MASS J19341402+4123432)
KIC 6050116	(see 2MASS J19363311+4120225)
KIC 6206751	(see 2MASS J19293751+4130469)
KIC 6287172	(see 2MASS J19295968+4137449)
KMT-2016-BLG-1820	<i>Jung, Y.K. et al.</i> (20 authors) 2018, AJ 156, 208. (1ao) Very low-mass microlensing binary.
KMT-2016-BLG-2142	<i>Jung, Y.K. et al.</i> (20 authors) 2018, AJ 156, 208. (1ao) Very low-mass microlensing binary.
M31N 2013-01b	<i>Marelli, M. et al.</i> (8 authors) 2018, ApJ 866, 125. (1oux, 2dx, 5b) Probably a massive WD with a low-mass companion.
Melotte 111 AV 1224	(see 2MASS J12214222+2500569)
MML 53	(see CPD-35°6437)
MOA-2016-BLG-231L	<i>Chung, S.-J. et al.</i> (63 authors) 2019, ApJ 871, 179. (1aio) Microlensing in the counter-rotating brown dwarf binary.
Nova Del 2013	(V339 Del)
NSVS 2569022	<i>Kjurkchieva, D.P., Popov, V.A., Petrov, N.I.</i> 2018, RAA 18, 129. (1ao, 5ce) A peculiar binary among W UMa stars with extremely small mass ratios.
NSVS 4161544	(see 2MASS J03263887+4343246)
OGLE-2014-BLG-0962	<i>Shan, Y. et al.</i> (50 authors) 2019, ApJ 873, 30. (1ai, 5e) Stellar binary microlensing event in a dwarf M+M binary.
OGLE LMC-T2CEP-211	<i>Pilecki, B. et al.</i> (8 authors) 2018, ApJ 868, 30. (2bi, 5i, 8c) Peculiar W Vir type II Cepheid EB component is the result of binary interaction.
PN M 3-2	<i>Boffin, H.M.J. et al.</i> (10 authors) 2018, A&A 619, A84. (1aio) When nature tries to trick us: an eccentric EB superposed on a PN central star.
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V574 Pup, V5114 Sgr, V5666 Sgr, U Sco, V745 Sco, V1534 Sco, V496 Sct, V382 Vel, LV Vul, PW Vul, LMC N 2009a, LMC N 2012a, LMC N 2013, M31N 2008-12a, SMCN 2016r.

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