

Markus Kromer

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9279068/publications.pdf>

Version: 2024-02-01

87
papers

7,132
citations

57719

44
h-index

54882

84
g-index

88
all docs

88
docs citations

88
times ranked

4338
citing authors

#	ARTICLE	IF	CITATIONS
1	A kilonova as the electromagnetic counterpart to a gravitational-wave source. <i>Nature</i> , 2017, 551, 75-79.	13.7	601
2	Three-dimensional delayed-detonation models with nucleosynthesis for Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1156-1172.	1.6	381
3	NORMAL TYPE Ia SUPERNOVAE FROM VIOLENT MERGERS OF WHITE DWARF BINARIES. <i>Astrophysical Journal Letters</i> , 2012, 747, L10.	3.0	336
4	Double-detonation sub-Chandrasekhar supernovae: can minimum helium shell masses detonate the core?. <i>Astronomy and Astrophysics</i> , 2010, 514, A53.	2.1	323
5	Sub-luminous type Ia supernovae from the mergers of equal-mass white dwarfs with mass $\hat{\sim}1/40.9M_{\odot}$. <i>Nature</i> , 2010, 463, 61-64.	13.7	307
6	DETONATIONS IN SUB-CHANDRASEKHAR-MASS C+O WHITE DWARFS. <i>Astrophysical Journal Letters</i> , 2010, 714, L52-L57.	3.0	296
7	PESSTO: survey description and products from the first data release by the Public ESO Spectroscopic Survey of Transient Objects. <i>Astronomy and Astrophysics</i> , 2015, 579, A40.	2.1	239
8	Towards an understanding of Type Ia supernovae from a synthesis of theory and observations. <i>Frontiers of Physics</i> , 2013, 8, 116-143.	2.4	232
9	HELIUM-IGNITED VIOLENT MERGERS AS A UNIFIED MODEL FOR NORMAL AND RAPIDLY DECLINING TYPE Ia SUPERNOVAE. <i>Astrophysical Journal Letters</i> , 2013, 770, L8.	3.0	217
10	Three-dimensional pure deflagration models with nucleosynthesis and synthetic observables for Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 438, 1762-1783.	1.6	208
11	DOUBLE-DETONATION SUB-CHANDRASEKHAR SUPERNOVAE: SYNTHETIC OBSERVABLES FOR MINIMUM HELIUM SHELL MASS MODELS. <i>Astrophysical Journal</i> , 2010, 719, 1067-1082.	1.6	205
12	Spectrophotometric time series of SN 2011fe from the Nearby Supernova Factory. <i>Astronomy and Astrophysics</i> , 2013, 554, A27.	2.1	178
13	CONSTRAINING TYPE Ia SUPERNOVA MODELS: SN 2011fe AS A TEST CASE. <i>Astrophysical Journal Letters</i> , 2012, 750, L19.	3.0	175
14	3D deflagration simulations leaving bound remnants: a model for 2002cx-like Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 2287-2297.	1.6	175
15	High luminosity, slow ejecta and persistent carbon lines: SN 2009dc challenges thermonuclear explosion scenarios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2735-2762.	1.6	170
16	Time-dependent three-dimensional spectrum synthesis for Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 398, 1809-1826.	1.6	153
17	Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae. <i>Astrophysical Journal</i> , 2018, 865, 15.	1.6	145
18	Delay times and rates for Type Ia supernovae and thermonuclear explosions from double-detonation sub-Chandrasekhar mass models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 408-419.	1.6	128

#	ARTICLE	IF	CITATIONS
19	2D simulations of the double-detonation model for thermonuclear transients from low-mass carbon-oxygen white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 420, 3003-3016.	1.6	121
20	Extensive HST ultraviolet spectra and multiwavelength observations of SN 2014J in M82 indicate reddening and circumstellar scattering by typical dust. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 2887-2906.	1.6	112
21	On the brightness distribution of Type Ia supernovae from violent white dwarf mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 429, 1425-1436.	1.6	107
22	Type Ia supernova bolometric light curves and ejected mass estimates from the Nearby Supernova Factory. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 1498-1518.	1.6	105
23	Early ^{56}Ni decay gamma rays from SN2014J suggest an unusual explosion. <i>Science</i> , 2014, 345, 1162-1165.	6.0	104
24	Deflagrations in hybrid CO/Ne white dwarfs: a route to explain the faint Type Ia supernova 2008ha. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3045-3053.	1.6	104
25	Three-dimensional simulations of the interaction between Type Ia supernova ejecta and their main sequence companions. <i>Astronomy and Astrophysics</i> , 2012, 548, A2.	2.1	94
26	Synthetic light curves and spectra for three-dimensional delayed-detonation models of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 436, 333-347.	1.6	87
27	THE IMPACT OF TYPE Ia SUPERNOVA EXPLOSIONS ON HELIUM COMPANIONS IN THE CHANDRASEKHAR-MASS EXPLOSION SCENARIO. <i>Astrophysical Journal</i> , 2013, 774, 37.	1.6	73
28	THE EARLIEST NEAR-INFRARED TIME-SERIES SPECTROSCOPY OF A TYPE Ia SUPERNOVA. <i>Astrophysical Journal</i> , 2013, 766, 72.	1.6	68
29	No trace of a single-degenerate companion in late spectra of supernovae 2011fe and 2014J. <i>Astronomy and Astrophysics</i> , 2015, 577, A39.	2.1	67
30	The peculiar Type Ia supernova iPTF14atg: Chandrasekhar-mass explosion or violent merger?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 4428-4439.	1.6	63
31	Early light curves for Type Ia supernova explosion models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 2787-2799.	1.6	60
32	SN 2010LP: A TYPE IA SUPERNOVA FROM A VIOLENT MERGER OF TWO CARBON-OXYGEN WHITE DWARFS. <i>Astrophysical Journal Letters</i> , 2013, 778, L18.	3.0	58
33	Three-dimensional simulations of gravitationally confined detonations compared to observations of SN 1991T. <i>Astronomy and Astrophysics</i> , 2016, 592, A57.	2.1	56
34	The type Ia supernova, SN 2015H. <i>Astronomy and Astrophysics</i> , 2016, 589, A89.	2.1	55
35	Type Ia supernovae from exploding oxygen-neon white dwarfs. <i>Astronomy and Astrophysics</i> , 2015, 580, A118.	2.1	54
36	CONSTRAINTS ON THE ORIGIN OF THE FIRST LIGHT FROM SN 2014J. <i>Astrophysical Journal</i> , 2015, 799, 106.	1.6	53

#	ARTICLE	IF	CITATIONS
37	[O I] $\lambda\lambda$ 6300, 6364 IN THE NEBULAR SPECTRUM OF A SUBLUMINOUS TYPE Ia SUPERNOVA. <i>Astrophysical Journal Letters</i> , 2013, 775, L43.	3.0	52
38	â€˜Super-Chandrasekharâ€™ Type Ia Supernovae at nebular epochsâ€¦. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 432, 3117-3130.	1.6	51
39	Type Ia supernovae from violent mergers of carbonâ€“oxygen white dwarfs: polarization signatures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1060-1070.	1.6	51
40	EVIDENCE FOR TYPE Ia SUPERNOVA DIVERSITY FROM ULTRAVIOLET OBSERVATIONS WITH THE HUBBLE SPACE TELESCOPE. <i>Astrophysical Journal</i> , 2012, 749, 126.	1.6	49
41	500 Days of SN 2013dy: spectra and photometry from the ultraviolet to the infrared. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 4307-4325.	1.6	49
42	Polarization spectral synthesis for Type Ia supernova explosion models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 967-981.	1.6	49
43	SNe Ia from double detonations: Impact of core-shell mixing on the carbon ignition mechanism. <i>Astronomy and Astrophysics</i> , 2020, 635, A169.	2.1	48
44	THE FIRST MAXIMUM-LIGHT ULTRAVIOLET THROUGH NEAR-INFRARED SPECTRUM OF A TYPE Ia SUPERNOVA. <i>Astrophysical Journal Letters</i> , 2012, 753, L5.	3.0	45
45	A SEARCH FOR AN OPTICAL COUNTERPART TO THE GRAVITATIONAL-WAVE EVENT GW151226. <i>Astrophysical Journal Letters</i> , 2016, 827, L40.	3.0	38
46	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2020, 644, A162.	2.1	37
47	Predicting polarization signatures for double-detonation and delayed-detonation models of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, 1039-1056.	1.6	36
48	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hbk. <i>Astronomy and Astrophysics</i> , 2019, 630, A76.	2.1	35
49	Interpreting the near-infrared spectra of the â€˜golden standardâ€™ Type Ia supernova 2005cf. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 427, 994-1003.	1.6	34
50	Strongly lensed SNe Ia in the era of LSST: observing cadence for lens discoveries and time-delay measurements. <i>Astronomy and Astrophysics</i> , 2019, 631, A161.	2.1	33
51	PREDICTING THE AMOUNT OF HYDROGEN STRIPPED BY THE SN EXPLOSION FOR SN 2002cx-LIKE SNe Ia. <i>Astrophysical Journal</i> , 2013, 778, 121.	1.6	32
52	The Spectacular Ultraviolet Flash from the Peculiar Type Ia Supernova 2019yvq. <i>Astrophysical Journal</i> , 2020, 898, 56.	1.6	32
53	Spectroscopy of the Type Ia supernova 2011fe past 1000 d. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 448, L48-L52.	1.2	31
54	The white dwarfâ€™s carbon fraction as a secondary parameter of Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2014, 572, A57.	2.1	28

#	ARTICLE	IF	CITATIONS
55	<i>Spitzer</i> observations of SN 2014J and properties of mid-IR emission in Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3442-3449.	1.6	28
56	Gamma-ray diagnostics of Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2013, 554, A67.	2.1	28
57	Abundance tomography of Type Ia SN 2011ay with <i>tardis</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 4865-4877.	1.6	26
58	5.9-keV Mn K-shell X-ray luminosity from the decay of ^{55}Fe in Type Ia supernova models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1484-1490.	1.6	25
59	OGLE-2013-SN-079: A LONELY SUPERNOVA CONSISTENT WITH A HELIUM SHELL DETONATION. <i>Astrophysical Journal Letters</i> , 2015, 799, L2.	3.0	25
60	PROSPECT OF STUDYING HARD X- AND GAMMA-RAYS FROM TYPE Ia SUPERNOVAE. <i>Astrophysical Journal</i> , 2012, 760, 54.	1.6	24
61	Monte Carlo radiative transfer for the nebular phase of Type Ia supernovae. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 2029-2043.	1.6	24
62	A supernova distance to the anchor galaxy NGC 4258. <i>Astronomy and Astrophysics</i> , 2015, 580, L15.	2.1	23
63	Thermonuclear explosions of rapidly differentially rotating white dwarfs: Candidates for superluminous Type Ia supernovae?. <i>Astronomy and Astrophysics</i> , 2018, 618, A124.	2.1	23
64	Modeling Type Ia supernova explosions. <i>Progress in Particle and Nuclear Physics</i> , 2011, 66, 309-318.	5.6	21
65	Monte Carlo radiation hydrodynamics: methods, tests and application to Type Ia supernova ejecta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 1430-1444.	1.6	20
66	SN 2012dn from early to late times: O9dc-like supernovae reassessed... <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	19
67	nero- a post-maximum supernova radiation transport code. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 1517-1525.	1.6	17
68	Type Ia supernovae from deflagrations in Chandrasekhar mass white dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 658, A179.	2.1	17
69	A metric space for Type Ia supernova spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1247-1266.	1.6	16
70	Monte-Carlo methods for NLTE spectral synthesis of supernovae. <i>Astronomy and Astrophysics</i> , 2018, 620, A156.	2.1	16
71	Type Ia supernovae as a few-parameter family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3609-3627.	1.6	16
72	An updated Type II supernova Hubble diagram. <i>Astronomy and Astrophysics</i> , 2018, 611, A25.	2.1	15

#	ARTICLE	IF	CITATIONS
73	Applying the expanding photosphere and standardized candle methods to Type II-Plateau supernovae at cosmologically significant redshifts. <i>Astronomy and Astrophysics</i> , 2016, 592, A129.	2.1	15
74	Quantitative spectral analysis of the sdB star HD188112: A helium-core white dwarf progenitor. <i>Astronomy and Astrophysics</i> , 2016, 585, A115.	2.1	13
75	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2021, 646, A110.	2.1	13
76	Synthetic NLTE accretion disc spectra for the dwarf nova SS Cygni during an outburst cycle. <i>Astronomy and Astrophysics</i> , 2007, 475, 301-308.	2.1	12
77	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2022, 658, A157.	2.1	11
78	OGLE14-073 – a promising pair-instability supernova candidate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3106-3114.	1.6	10
79	White dwarf deflagrations for Type Ia supernovae: polarisation signatures from the explosion and companion interaction. <i>Astronomy and Astrophysics</i> , 2020, 635, A179.	2.1	8
80	Type Ia Supernovae and Accretion Induced Collapse. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	4
81	Oxygen emission in remnants of thermonuclear supernovae as a probe for their progenitor system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 1441-1448.	1.6	4
82	A metric space for Type Ia supernova spectra: a new method to assess explosion scenarios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 466, 3784-3809.	1.6	4
83	Testing for redshift evolution of Type Ia supernovae using the strongly lensed PS1-10afx at $z=1.4$. <i>Astronomy and Astrophysics</i> , 2017, 603, A136.	2.1	4
84	ASASSN-14lp: two possible solutions for the observed ultraviolet suppression. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 415-431.	1.6	3
85	A THEORETICAL COLOR-VELOCITY CORRELATION FOR SUPERNOVAE ASSOCIATED WITH GAMMA-RAY BURSTS. <i>Astrophysical Journal</i> , 2012, 759, 38.	1.6	2
86	Type Ia Supernovae from Sub-Chandrasekhar Mass White Dwarfs. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 267-274.	0.0	1
87	Thermonuclear Supernova Explosions from White Dwarfs in Different Progenitor Systems. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 261-266.	0.0	0