

Markus Kromer

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Type Iax supernovae from deflagrations in Chandrasekhar mass white dwarfs. <i>Astronomy and Astrophysics</i> , 2022, 658, A179.	2.1	17
2	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2022, 658, A157.	2.1	11
3	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2021, 646, A110.	2.1	13
4	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
5	White dwarf deflagrations for Type Iax supernovae: polarisation signatures from the explosion and companion interaction. <i>Astronomy and Astrophysics</i> , 2020, 635, A179.	2.1	8
6	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
7	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
8	HOLISMOKES. <i>Astronomy and Astrophysics</i> , 2020, 644, A162.	2.1	37
9	The Spectacular Ultraviolet Flash from the Peculiar Type Ia Supernova 2019yvq. <i>Astrophysical Journal</i> , 2020, 898, 56.	1.6	32
10	Evidence for a Chandrasekhar-mass explosion in the Ca-strong 1991bg-like type Ia supernova 2016hnk. <i>Astronomy and Astrophysics</i> , 2019, 630, A76.	2.1	35
11	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
12	OGLE14-073 – a promising pair-instability supernova candidate. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 479, 3106-3114.	1.6	10
13	Monte-Carlo methods for NLTE spectral synthesis of supernovae. <i>Astronomy and Astrophysics</i> , 2018, 620, A156.	2.1	16
14	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
15	Type Iax supernovae as a few-parameter family. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3609-3627.	1.6	16
16	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
17	An updated Type II supernova Hubble diagram. <i>Astronomy and Astrophysics</i> , 2018, 611, A25.	2.1	15
18	A kilonova as the electromagnetic counterpart to a gravitational-wave source. <i>Nature</i> , 2017, 551, 75-79.	13.7	601

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19	<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
20	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
21	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
22	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
23	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
24	Three-dimensional simulations of gravitationally confined detonations compared to observations of SN 1991T. <i>Astronomy and Astrophysics</i> , 2016, 592, A57.	2.1	56
25	Quantitative spectral analysis of the sdB star HD 188112: A helium-core white dwarf progenitor. <i>Astronomy and Astrophysics</i> , 2016, 585, A115.	2.1	13
26	The type Ia supernova, SN 2015H. <i>Astronomy and Astrophysics</i> , 2016, 589, A89.	2.1	55
27	A SEARCH FOR AN OPTICAL COUNTERPART TO THE GRAVITATIONAL-WAVE EVENT GW151226. <i>Astrophysical Journal Letters</i> , 2016, 827, L40.	3.0	38
28	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
29	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
30	Type Ia supernovae from violent mergers of carbon-oxygen white dwarfs: polarization signatures. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1060-1070.	1.6	51
31	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
32	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
33	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
34	Deflagrations in hybrid CNe 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
35	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
36	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

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37	Type Ia supernovae from exploding oxygen-neon white dwarfs. <i>Astronomy and Astrophysics</i> , 2015, 580, A118.	2.1	54
38	A supernova distance to the anchor galaxy NGC 4258. <i>Astronomy and Astrophysics</i> , 2015, 580, L15.	2.1	23
39	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
40	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
41	CONSTRAINTS ON THE ORIGIN OF THE FIRST LIGHT FROM SN 2014J. <i>Astrophysical Journal</i> , 2015, 799, 106.	1.6	53
42	OGLE-2013-SN-079: A LONELY SUPERNOVA CONSISTENT WITH A HELIUM SHELL DETONATION. <i>Astrophysical Journal Letters</i> , 2015, 799, L2.	3.0	25
43	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
44	A metric space for Type Ia supernova spectra. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 447, 1247-1266.	1.6	16
45	The white dwarf's carbon fraction as a secondary parameter of Type Ia supernovae. <i>Astronomy and Astrophysics</i> , 2014, 572, A57.	2.1	28
46	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
47	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
48	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
49	Early ^{56}Ni decay gamma rays from SN2014J suggest an unusual explosion. <i>Science</i> , 2014, 345, 1162-1165.	6.0	104
50	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
51	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
52	Spectrophotometric time series of SN 2011fe from the Nearby Supernova Factory. <i>Astronomy and Astrophysics</i> , 2013, 554, A27.	2.1	178
53	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
54	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

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55	On the brightness distribution of Type Ia supernovae from violent white dwarf mergers. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1425-1436.	1.6	107
56	Three-dimensional delayed-detonation models with nucleosynthesis for Type Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1156-1172.	1.6	381
57	THE EARLIEST NEAR-INFRARED TIME-SERIES SPECTROSCOPY OF A TYPE Ia SUPERNOVA. Astrophysical Journal, 2013, 766, 72.	1.6	68
58	THE IMPACT OF TYPE Ia SUPERNOVA EXPLOSIONS ON HELIUM COMPANIONS IN THE CHANDRASEKHAR-MASS EXPLOSION SCENARIO. Astrophysical Journal, 2013, 774, 37.	1.6	73
59	[O I] $\lambda\lambda$ 6300, 6364 IN THE NEBULAR SPECTRUM OF A SUBLUMINOUS TYPE Ia SUPERNOVA. Astrophysical Journal Letters, 2013, 775, L43.	3.0	52
60	HELIUM-IGNITED VIOLENT MERGERS AS A UNIFIED MODEL FOR NORMAL AND RAPIDLY DECLINING TYPE Ia SUPERNOVAE. Astrophysical Journal Letters, 2013, 770, L8.	3.0	217
61	PREDICTING THE AMOUNT OF HYDROGEN STRIPPED BY THE SN EXPLOSION FOR SN 2002cx-LIKE SNe Ia. Astrophysical Journal, 2013, 778, 121.	1.6	32
62	â€œSuper-Chandrasekharâ€™ Type Ia Supernovae at nebular epochsâ€¦... Monthly Notices of the Royal Astronomical Society, 2013, 432, 3117-3130.	1.6	51
63	Gamma-ray diagnostics of Type Ia supernovae. Astronomy and Astrophysics, 2013, 554, A67.	2.1	28
64	NORMAL TYPE Ia SUPERNOVAE FROM VIOLENT MERGERS OF WHITE DWARF BINARIES. Astrophysical Journal Letters, 2012, 747, L10.	3.0	336
65	PROSPECT OF STUDYING HARD X- AND GAMMA-RAYS FROM TYPE Ia SUPERNOVAE. Astrophysical Journal, 2012, 760, 54.	1.6	24
66	EVIDENCE FOR TYPE Ia SUPERNOVA DIVERSITY FROM ULTRAVIOLET OBSERVATIONS WITH THE HUBBLE SPACE TELESCOPE. Astrophysical Journal, 2012, 749, 126.	1.6	49
67	CONSTRAINING TYPE Ia SUPERNOVA MODELS: SN 2011fe AS A TEST CASE. Astrophysical Journal Letters, 2012, 750, L19.	3.0	175
68	THE FIRST MAXIMUM-LIGHT ULTRAVIOLET THROUGH NEAR-INFRARED SPECTRUM OF A TYPE Ia SUPERNOVA. Astrophysical Journal Letters, 2012, 753, L5.	3.0	45
69	A THEORETICAL COLOR-VELOCITY CORRELATION FOR SUPERNOVAE ASSOCIATED WITH GAMMA-RAY BURSTS. Astrophysical Journal, 2012, 759, 38.	1.6	2
70	Monte Carlo radiation hydrodynamics: methods, tests and application to Type Ia supernova ejecta. Monthly Notices of the Royal Astronomical Society, 2012, 425, 1430-1444.	1.6	20
71	Interpreting the near-infrared spectra of the â€œgolden standardâ€™ Type Ia supernova 2005cf. Monthly Notices of the Royal Astronomical Society, 2012, 427, 994-1003.	1.6	34
72	Three-dimensional simulations of the interaction between Type Ia supernova ejecta and their main sequence companions. Astronomy and Astrophysics, 2012, 548, A2.	2.1	94

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73	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
74	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
75	Type Ia Supernovae from Sub-Chandrasekhar Mass White Dwarfs. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 267-274.	0.0	1
76	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
77	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
78	nero- a post-maximum supernova radiation transport code. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 418, 1517-1525.	1.6	17
79	Modeling Type Ia supernova explosions. <i>Progress in Particle and Nuclear Physics</i> , 2011, 66, 309-318.	5.6	21
80	Double-detonation sub-Chandrasekhar supernovae: can minimum helium shell masses detonate the core?. <i>Astronomy and Astrophysics</i> , 2010, 514, A53.	2.1	323
81	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
82	DOUBLE-DETONATION SUB-CHANDRASEKHAR SUPERNOVAE: SYNTHETIC OBSERVABLES FOR MINIMUM HELIUM SHELL MASS MODELS. <i>Astrophysical Journal</i> , 2010, 719, 1067-1082.	1.6	205
83	DETONATIONS IN SUB-CHANDRASEKHAR-MASS C+O WHITE DWARFS. <i>Astrophysical Journal Letters</i> , 2010, 714, L52-L57.	3.0	296
84	Type Ia Supernovae and Accretion Induced Collapse. <i>AIP Conference Proceedings</i> , 2010, , .	0.3	4
85	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
86	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
87	SN 2012dn from early to late times: O9dc-like supernovae reassessed... <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	1.6	19