Stuart A Sim

List of Publications by Year
in descending order

42 papers	2,069 citations	257357 24 h-index	289141 40 g-index
43 all docs	43 docs citations	43 times ranked	2132 citing authors

#	Article	IF	Citations
1	Models of pulsationally assisted gravitationally confined detonations with different ignition conditions. Astronomy and Astrophysics, 2022, 659, A27.	2.1	6
2	Type Iax supernovae from deflagrations in Chandrasekhar mass white dwarfs. Astronomy and Astrophysics, 2022, 658, A179.	2.1	17
3	Optical line spectra of tidal disruption events from reprocessing in optically thick outflows. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5426-5443.	1.6	9
4	Modelling the ionization state of TypeÂIa supernovae in the nebular phase. Monthly Notices of the Royal Astronomical Society, 2022, 512, 6150-6163.	1.6	9
5	Double detonations of sub-M_{Ch} CO white dwarfs: variations in Type Ia supernovae due to different core and He shell masses. Astronomy and Astrophysics, 2021, 649, A155.	2.1	35
6	Metallicity-dependent nucleosynthetic yields of Type Ia supernovae originating from double detonations of sub-M_{Ch} white dwarfs. Astronomy and Astrophysics, 2021, 656, A94.	2.1	26
7	Prospects of direct detection of 48V gamma-rays from thermonuclear supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 508, 1590-1598.	1.6	4
8	Accretion disc winds in tidal disruption events: ultraviolet spectral lines as orientation indicators. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4914-4929.	1.6	9
9	The Lowest of the Low: Discovery of SN 2019gsc and the Nature of Faint Iax Supernovae. Astrophysical Journal Letters, 2020, 892, L24.	3.0	20
10	SNe Ia from double detonations: Impact of core-shell mixing on the carbon ignition mechanism. Astronomy and Astrophysics, 2020, 635, A169.	2.1	48
11	Thermal and radiation driving can produce observable disc winds in hard-state X-ray binaries. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5271-5279.	1.6	21
12	Stratified disc wind models for the AGN broad-line region: ultraviolet, optical, and X-ray properties. Monthly Notices of the Royal Astronomical Society, 2020, 492, 5540-5560.	1.6	29
13	HOLISMOKES. Astronomy and Astrophysics, 2020, 644, A162.	2.1	37
14	SN2018kzr: A Rapidly Declining Transient from the Destruction of a White Dwarf. Astrophysical Journal Letters, 2019, 885, L23.	3.0	28
15	Monte Carlo radiative transfer. Living Reviews in Solar Physics, 2019, 5, 1.	5.0	46
16	Spectral Sequences of Type Ia Supernovae. II. Carbon as a Diagnostic Tool for Explosion Mechanisms. Astrophysical Journal, 2019, 871, 250.	1.6	8
17	Models for Type Ia Supernovae and Related Astrophysical Transients. Space Sciences Series of ISSI, 2019, , 69-85.	0.0	0
18	The Cow: Discovery of a Luminous, Hot, and Rapidly Evolving Transient. Astrophysical Journal Letters, 2018, 865, L3.	3.0	146

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19	Radiation-hydrodynamic simulations of thermally driven disc winds in X-ray binaries: a direct comparison to GRO J1655â˜40. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3651-3662.	1.6	24
20	Multidimensional simulations of ultrastripped supernovae to shock breakout. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3675-3689.	1.6	57
21	Type Iax supernovae as a few-parameter family. Monthly Notices of the Royal Astronomical Society, 2018, 480, 3609-3627.	1.6	16
22	Models for Type Ia Supernovae and Related Astrophysical Transients. Space Science Reviews, 2018, 214, 1.	3.7	27
23	Diffuse Galactic antimatter from faint thermonuclear supernovae in old stellar populations. Nature Astronomy, 2017, 1, .	4.2	40
24	Spectra of Supernovae During the Photospheric Phase. , 2017, , 769-793.		5
25	Spectral Sequences of Type Ia Supernovae. I. Connecting Normal and Subluminous SNe Ia and the Presence of Unburned Carbon. Astrophysical Journal, 2017, 846, 15.	1.6	15
26	Helium in double-detonation models of type Ia supernovae. Astronomy and Astrophysics, 2017, 599, A46.	2.1	29
27	Spectra of Supernovae During the Photospheric Phase. , 2017, , 1-25.		0
28	Three-dimensional simulations of gravitationally confined detonations compared to observations of SN 1991T. Astronomy and Astrophysics, 2016, 592, A57.	2.1	56
29	SN2014J gamma rays from the⁵⁶Ni decay chain. Astronomy and Astrophysics, 2015, 574, A72.	2.1	64
30	Type Ia supernovae from exploding oxygen-neon white dwarfs. Astronomy and Astrophysics, 2015, 580, A118.	2.1	54
31	OGLE-2013-SN-079: A LONELY SUPERNOVA CONSISTENT WITH A HELIUM SHELL DETONATION. Astrophysical Journal Letters, 2015, 799, L2.	3.0	25
32	CONSTRAINTS ON EXPLOSIVE SILICON BURNING IN CORE-COLLAPSE SUPERNOVAE FROM MEASURED Ni/Fe RATIOS. Astrophysical Journal, 2015, 807, 110.	1.6	35
33	The white dwarfâ€™s carbon fraction as a secondary parameter of Type Ia supernovae. Astronomy and Astrophysics, 2014, 572, A57.	2.1	28
34	LINE-DRIVEN DISK WINDS IN ACTIVE GALACTIC NUCLEI: THE CRITICAL IMPORTANCE OF IONIZATION AND RADIATIVE TRANSFER. Astrophysical Journal, 2014, 789, 19.	1.6	101
35	Three-dimensional pure deflagration models with nucleosynthesis and synthetic observables for Type Ia supernovae. Monthly Notices of the Royal Astronomical Society, 2014, 438, 1762-1783.	1.6	208
36	Locations of peculiar supernovae as a diagnostic of their origins. Monthly Notices of the Royal Astronomical Society, 2013, 432, 1680-1686.	1.6	31

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37	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
38	A THEORETICAL COLOR-VELOCITY CORRELATION FOR SUPERNOVAE ASSOCIATED WITH GAMMA-RAY BURSTS. Astrophysical Journal, 2012, 759, 38.	1.6	2
39	Type Ia Supernovae from Sub-Chandrasekhar Mass White Dwarfs. Proceedings of the International Astronomical Union, 2011, 7, 267-274.	0.0	1
40	THE GEOMETRY AND IONIZATION STRUCTURE OF THE WIND IN THE ECLIPSING NOVA-LIKE VARIABLES RW TRI AND UX UMa. Astrophysical Journal, 2010, 719, 1932-1945.	1.6	33
41	Sub-luminous type Ia supernovae from the mergers of equal-mass white dwarfs with mass â^¼0.9MâŠ™. Nature, 2010, 463, 61-64.	13.7	307
42	On the relativistic iron line and soft excess in the Seyfert 1 galaxy Markarian 335. Monthly Notices of the Royal Astronomical Society: Letters, 2007, 381, L94-L98.	1.2	27