

Trevor M Sprouse

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

977
citations

471509

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27
all docs

27
docs citations

27
times ranked

839
citing authors

#	ARTICLE	IF	CITATIONS
1	The Impact of Nuclear Physics Uncertainties on Interpreting Kilonova Light Curves. EPJ Web of Conferences, 2022, 260, 03004.	0.3	2
2	Isochronic Evolution and the Radioactive Decay of r-process Nuclei. Astrophysical Journal, 2022, 929, 22.	4.5	4
3	Application of Mass Measurements with the Rare-Rf Ring Reveals the Solar r -Process Abundance Trend at $A < 122$ and $A < 122$ and	7.8	16
4	Modeling Kilonova Light Curves: Dependence on Nuclear Inputs. Astrophysical Journal, 2021, 906, 94.	4.5	63
5	^{129}I and ^{247}Cm in meteorites constrain the last astrophysical source of solar r-process elements. Science, 2021, 371, 945-948.	12.6	37
6	Reconstructing Masses of Merging Neutron Stars from Stellar r-process Abundance Signatures. Astrophysical Journal, 2021, 909, 21.	4.5	13
7	Astromers in the Radioactive Decay of r-process Nuclei. Astrophysical Journal Letters, 2021, 913, L2.	8.3	15
8	Following nuclei through nucleosynthesis: A novel tracing technique. Physical Review C, 2021, 104, .	2.9	19
9	Kilonovae Across the Nuclear Physics Landscape: The Impact of Nuclear Physics Uncertainties on r-process-powered Emission. Astrophysical Journal, 2021, 918, 44.	4.5	66
10	Sensitivity of Neutron-Rich Nuclear Isomer Behavior to Uncertainties in Direct Transitions. Symmetry, 2021, 13, 1831.	2.2	14
11	Characterizing r-Process Sites through Actinide Production. Journal of Physics: Conference Series, 2020, 1668, 012020.	0.4	2
12	Spallation of r-Process Nuclei Ejected from a Neutron Star Merger. Journal of Physics: Conference Series, 2020, 1668, 012049.	0.4	0
13	Sandblasting the r-process: Spallation of Ejecta from Neutron Star Mergers. Astrophysical Journal, 2020, 893, 92.	4.5	8
14	β -decay half-lives of 55 neutron-rich isotopes beyond the $N = 82$ shell gap. Physical Review C, 2020, 101, .	2.9	23
15	Probing the fission properties of neutron-rich actinides with the astrophysical r process. EPJ Web of Conferences, 2020, 242, 04002.	0.3	2
16	Propagation of statistical uncertainties of Skyrme mass models to simulations of r -process nucleosynthesis. Physical Review C, 2020, 101, .	2.9	32
17	Gamma Rays from Kilonova: A Potential Probe of r-process Nucleosynthesis. Astrophysical Journal, 2020, 889, 168.	4.5	29
18	Coproduction of Light and Heavy r-process Elements via Fission Deposition. Astrophysical Journal, 2020, 896, 28.	4.5	32

#	ARTICLE	IF	CITATIONS
19	Full Transport General Relativistic Radiation Magnetohydrodynamics for Nucleosynthesis in Collapsars. <i>Astrophysical Journal</i> , 2020, 902, 66.	4.5	58
20	MeV Gamma Rays from Fission: A Distinct Signature of Actinide Production in Neutron Star Mergers. <i>Astrophysical Journal Letters</i> , 2020, 903, L3.	8.3	18
21	Actinide-rich and Actinide-poor r-process-enhanced Metal-poor Stars Do Not Require Separate r-process Progenitors. <i>Astrophysical Journal</i> , 2019, 881, 5.	4.5	36
22	Using excitation-energy dependent fission yields to identify key fissioning nuclei in <i>r</i> -process nucleosynthesis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 065202.	3.6	73
23	Actinide Production in the Neutron-rich Ejecta of a Neutron Star Merger. <i>Astrophysical Journal</i> , 2019, 870, 23.	4.5	62
24	The Origin of r-process Elements in the Milky Way. <i>Astrophysical Journal</i> , 2018, 855, 99.	4.5	168
25	$\hat{\Gamma}^2$ -delayed Fission in r-process Nucleosynthesis. <i>Astrophysical Journal</i> , 2018, 869, 14.	4.5	63
26	Californium-254 and Kilonova Light Curves. <i>Astrophysical Journal Letters</i> , 2018, 863, L23.	8.3	80
27	Estimation of M^2 scissors mode strength for deformed nuclei in the medium- to heavy-mass region by statistical Hauser-Feshbach model calculations. <i>Physical Review C</i> , 2017, 96, ...	2.9	42