Claudio Mendoza

List of Publications by Year
in descending order

26 papers	493 citations	759233 12 h-index	677142 22 g-index
27 all docs	27 docs citations	27 times ranked	524 citing authors

#	Article	IF	Citations
1	SPECTRUM SYNTHESIS MODELING OF THE X-RAY SPECTRUM OF GRO J1655-40 TAKEN DURING THE 2005 OUTBURST. Astrophysical Journal, 2009, 701, 865-884.	4.5	89
2	A Decade with VAMDC: Results and Ambitions. Atoms, 2020, 8, 76.	1.6	53
3	Time-dependent Closed Form Solutions for Fully Competitive Enzyme Reactions. Bulletin of Mathematical Biology, 2000, 62, 321-336.	1.9	41
4	Enzyme kinetics of multiple alternative substrates. Journal of Mathematical Chemistry, 2000, 27, 155-170.	1.5	38
5	ISMabs: A COMPREHENSIVE X-RAY ABSORPTION MODEL FOR THE INTERSTELLAR MEDIUM. Astrophysical Journal, 2015, 800, 29.	4.5	36
6	ATOMIC DATA AND SPECTRAL MODEL FOR Fe II. Astrophysical Journal, 2015, 808, 174.	4.5	36
7	PHYSICAL PROPERTIES OF THE INTERSTELLAR MEDIUM USING HIGH-RESOLUTION *CHANDRA* SPECTRA: O K-EDGE ABSORPTION. Astrophysical Journal, 2014, 790, 131.	4.5	25
8	Oxygen, neon, and iron X-ray absorption in the local interstellar medium. Astronomy and Astrophysics, 2016, 588, A111.	5.1	25
9	CATIVIC: Parametric quantum chemistry package for catalytic reactions: I. International Journal of Quantum Chemistry, 2004, 96, 321-332.	2.0	20
10	Atomic Data Assessment with PyNeb. Atoms, 2020, 8, 66.	1.6	17
11	Plasma environment effects on K lines of astrophysical interest. Astronomy and Astrophysics, 2019, 626, A83.	5.1	16
12	Atomic hydrogen interaction with a cluster-model graphite surface: Chemisorption, coverage and H2 surface recombination. Catalysis Letters, 1989, 3, 89-97.	2.6	15
13	The XSTAR Atomic Database. Atoms, 2021, 9, 12.	1.6	12
14	A fast method to estimate kinetic constants for enzyme inhibitors. , 2001, 49, 109-113.		11
15	K-SHELL PHOTOABSORPTION OF MAGNESIUM IONS. Astrophysical Journal, Supplement Series, 2014, 214, 8.	7.7	11
16	Calculation of one-center integrals in parametric methods using simulated annealing and simplex methods. International Journal of Quantum Chemistry, 2004, 96, 303-311.	2.0	10
17	Photoionization Models for High-density Gas. Astrophysical Journal, 2021, 908, 94.	4.5	8
18	IPOPv2 online service for the generation of opacity tables. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 171, 66-72.	2.3	7

#	Article	IF	Citations
19	Computation of Atomic Astrophysical Opacities. Atoms, 2018, 6, 28.	1.6	6
20	AtomPy: An Open Atomic Data Curation Environment for Astrophysical Applications. Atoms, 2014, 2, 123-156.	1.6	5
21	84.20 A Formula for Integrating Inverse Functions. Mathematical Gazette, 2000, 84, 103.	0.0	3
22	K-shell photoabsorption and photoionization of trace elements. Astronomy and Astrophysics, 2018, 616, A62.	5.1	3
23	Integrating numerical modeling into an introductory physics laboratory. American Journal of Physics, 2021, 89, 713-720.	0.7	3
24	Kâ€‘line Xâ€‘ray fluorescence from highly charged iron ions under dense astrophysical plasma conditions. X-Ray Spectrometry, 2020, 49, 29-32.	1.4	2
25	Atomic Databases: Four of a Kind. Atoms, 2020, 8, 30.	1.6	1
26	Increasing the visibility and publicity for data activities and assuring the open exchange of data. , 1998, , .		0