

Chintan Shah

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

353
citations

759233

12
h-index

794594

19
g-index

28
all docs

28
docs citations

28
times ranked

370
citing authors

#	ARTICLE	IF	CITATIONS
1	Polarization measurement of dielectronic recombination transitions in highly charged krypton ions. <i>Physical Review A</i> , 2015, 92, .	2.5	48
2	LABORATORY MEASUREMENTS COMPELLINGLY SUPPORT A CHARGE-EXCHANGE MECHANISM FOR THE α -DARK MATTER $\sim 1/3.5$ keV X-Ray LINE. <i>Astrophysical Journal</i> , 2016, 833, 52.	4.5	38
3	X-ray spectra of the Fe-L complex. <i>Astronomy and Astrophysics</i> , 2019, 627, A51.	5.1	27
4	State-selective influence of the Breit interaction on the angular distribution of emitted photons following dielectronic recombination. <i>Physical Review A</i> , 2017, 95, .	2.5	25
5	High Resolution Photoexcitation Measurements Exacerbate the Long-Standing Fe XVII Oscillator Strength Problem. <i>Physical Review Letters</i> , 2020, 124, 225001.	7.8	25
6	Polarization of K-shell Dielectronic Recombination Satellite Lines of Fe XIX and Its Application for Diagnostics of Anisotropies of Hot Plasmas. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 27.	7.7	24
7	EUV spectroscopy of highly charged Sn^{21+} in an electron-beam ion trap. <i>Physical Review A</i> , 2020, 101, .	2.1	21
8	Strong higher-order resonant contributions to x-ray line polarization in hot plasmas. <i>Physical Review E</i> , 2016, 93, 061201.	2.1	19
9	Revisiting the Fe XVII Line Emission Problem: Laboratory Measurements of the $3s^2 2p$ and $3d^2 2p$ Line-formation Channels. <i>Astrophysical Journal</i> , 2019, 881, 100.	4.5	16
10	X-ray spectra of the Fe-L complex. <i>Astronomy and Astrophysics</i> , 2020, 641, A93.	5.1	16
11	Charge exchange in galaxy clusters. <i>Astronomy and Astrophysics</i> , 2018, 611, A26.	5.1	14
12	EUV spectroscopy of Sn^{10+} ions in an electron beam ion trap and laser-produced plasmas. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2020, 53, 195001.	1.5	12
13	Compton polarimeter for 10–30 keV x rays. <i>Review of Scientific Instruments</i> , 2015, 86, 093110.	1.3	10
14	High-resolution Laboratory Measurements of K-shell X-Ray Line Polarization and Excitation Cross Sections in Helium-like S XV Ions. <i>Astrophysical Journal</i> , 2021, 914, 34.	4.5	9
15	Uncertainties in Atomic Data for Modeling Astrophysical Charge Exchange Plasmas. <i>Sensors</i> , 2022, 22, 752.	3.8	9
16	High-Precision Determination of Oxygen Transition Energy Excludes Incongruent Motion of Interstellar Oxygen. <i>Physical Review Letters</i> , 2020, 125, 241801.	1.8	8
17	Resonance strengths for dielectronic recombination of highly charged mercury ions and improved empirical Z^{-2} -scaling law. <i>Physical Review A</i> , 2019, 99, .	2.5	7
18	Observation of strong two-electron–one-photon transitions in few-electron ions. <i>Physical Review A</i> , 2020, 102, .	2.5	7

#	ARTICLE	IF	CITATIONS
19	Absolute throughput calibration of multiple spherical crystals for the Orion High-REsolution X-ray spectrometer (OHREX). <i>Review of Scientific Instruments</i> , 2021, 92, 023509.	1.3	5
20	Comprehensive Laboratory Measurements Resolving the LMM Dielectronic Recombination Satellite Lines in Ne-like Fe xvii Ions. <i>Astrophysical Journal</i> , 2021, 913, 140.	4.5	4
21	Fe xvii 2p ³ s Line Ratio Diagnostic of Shock Formation Radius in O Stars. <i>Astrophysical Journal</i> , 2021, 917, 105.	4.5	2
22	A new benchmark of soft X-ray transition energies of Ne , CO_2 , and SF_6 : paving a pathway towards ppm accuracy. <i>European Physical Journal D</i> , 2022, 76, 38.	1.3	1
23	Measurement of the angular distribution of Dielectronic Recombination into highly charged Krypton ions. <i>Journal of Physics: Conference Series</i> , 2014, 488, 062030.	0.4	0
24	Linear polarization of x rays due to dielectronic recombination into highly charged ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052091.	0.4	0
25	Complete measurements of anisotropic x-ray emission following recombination of highly charged ions. <i>Journal of Physics: Conference Series</i> , 2015, 635, 052093.	0.4	0
26	Laboratory measurements compellingly supports a charge-exchange mechanism for the “Dark matter” 3.5 keV X-ray line. <i>Journal of Physics: Conference Series</i> , 2017, 875, 052039.	0.4	0
27	Strong higher-order resonant contribution to Fe K α x-ray line polarization in hot anisotropic plasmas. <i>Journal of Physics: Conference Series</i> , 2017, 875, 052038.	0.4	0