

P Mandelbaum

List of Publications by Year in descending order

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58
papers

1,134
citations

361413

20
h-index

414414

32
g-index

58
all docs

58
docs citations

58
times ranked

275
citing authors

#	ARTICLE	IF	CITATIONS
1	Line and band emission from tungsten ions with charge 21+ to 45+ in the 45-70 Å... range. Physical Review A, 2001, 64, .	2.5	108
2	Interpretation of the quasicontinuum band emitted by highly ionized rare-earth elements in the 70-100 Å... range. Physical Review A, 1987, 35, 5051-5059.	2.5	91
3	Quenching of transition arrays through configuration mixing. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1443-1450.	1.6	78
4	Classification of X-Ray Spectra from Laser Produced Plasmas of Atoms from Tm to Pt in the Range 6-9 Å... Physica Scripta, 1983, 27, 39-53.	2.5	45
5	Soft X-ray bands of highly ionized tungsten, gold and lead emitted by the TEXT tokamak plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 1988, 127, 255-258.	2.1	40
6	Nickel-like spectra of elements Y xii to Ag xx from a vacuum spark. Journal of the Optical Society of America, 1981, 71, 219.	1.2	38
7	Dielectronic recombination rate coefficients for highly ionized Ni-like atoms. Physical Review A, 1996, 54, 3070-3077.	2.5	36
8	Dielectronic recombination of Ne-like tungsten. Physical Review A, 1999, 59, 2787-2793.	2.5	36
9	Interpretation of unresolved transition arrays in the soft-x-ray spectra of highly ionized molybdenum and palladium. Physical Review A, 1982, 25, 2391-2394.	2.5	34
10	The Unresolved 3d-4f Transitions in the X-ray Spectra of Highly Ionized Tm to Re from Laser Produced Plasma. Physica Scripta, 1986, 34, 51-57.	2.5	33
11	Excitation-autoionization through 3d-4l inner-shell excitations in Cu- to Kr-like ions and the effect on fractional-ion-abundance balance in coronal plasmas. Physical Review A, 1994, 50, 4911-4929.	2.5	32
12	Dielectronic recombination of Ni-like ions through the 3d ⁹ ln ² l ² (n ² =4,5) Cu-like configurations. Physical Review A, 1995, 52, 3770-3779.	2.5	32
13	Total dielectronic recombination rate coefficient for Ar-like tungsten. Physical Review A, 1998, 57, 3493-3503.	2.5	31
14	X ray and EUV spectroscopic measurements of highly charged tungsten ions relevant to fusion plasmas. Journal of Physics: Conference Series, 2007, 58, 113-116.	0.4	30
15	The spectrum of highly ionized praseodymium and dysprosium from the Texas tokamak plasma in the 50-250 Å... range. Journal of Applied Physics, 1986, 59, 3644-3649.	2.5	29
16	Dielectronic recombination of Ni-, Cu-, and Ar-like tungsten and barium through the low inner-shell excited configurations including collision processes. Journal of Quantitative Spectroscopy and Radiative Transfer, 1997, 58, 449-469.	2.3	29
17	X-Ray Spectrum Emitted by Laser-Produced Barium Plasma in the 8 to 13.5 Å... Wavelength Range. Physica Scripta, 1998, 58, 19-24.	2.5	22
18	High-resolution x-ray spectrum of a laser-produced barium plasma in the 9.10-9.36 Å... wavelength range. Physical Review A, 1998, 58, 1859-1866.	2.5	22

#	ARTICLE	IF	CITATIONS
19	Nickel-like spectra of Tm XLII and Yb XLIII from laser produced plasma. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 79, 67-70.	2.1	21
20	Interpretation of laser produced Au and W X-ray spectra in the 3 keV range. Physics Letters, Section A: General, Atomic and Solid State Physics, 1986, 117, 31-35.	2.1	20
21	Effect of excitation-autoionization processes on the line emission of Zn \hat{e} and Ga \hat{e} like rare-earth ions in hot coronal plasmas. Physical Review A, 1990, 42, 4412-4415.	2.5	20
22	The x-ray emission spectra of multicharged xenon ions in a gas puff laser-produced plasma. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 113-122.	1.5	19
23	High-resolution autoionizing line spectra of Mg ii and Al iii in the 160 \hat{e} 260 \hat{A} ... range emitted from a Penning ionization discharge plasma. Journal of the Optical Society of America B: Optical Physics, 1988, 5, 1640.	2.1	18
24	Analysis of the x-ray spectra emitted by laser-produced plasma of highly ionized lanthanum and praseodymium in the 8.4 to 12.0 \hat{A} ... wavelength range. Physica Scripta, 1994, 50, 61-67.	2.5	18
25	3d-4p transitions in the soft X-ray spectra of Mo XIV and of isoelectric Y to Ag ions, from a low-inductance vacuum spark. Physics Letters, Section A: General, Atomic and Solid State Physics, 1981, 84, 177-181.	2.1	17
26	Dielectronic recombination rate coefficients of Ni-like barium and tungsten. European Physical Journal D, 1999, 7, 157-161.	1.3	17
27	Distorted-wave calculations of the electron-impact excitation-autoionization processed from the ground state of highly ionized Ga \hat{e} like ions through \hat{n} =1 inner-shell excitations. Physical Review A, 1991, 44, 1741-1749.	2.5	16
28	General analytic formula for total dielectronic recombination rate coefficients of Ni-like ions. Physical Review A, 1998, 58, 2115-2120.	2.5	16
29	Excitation-autoionization cross sections and rate coefficients of Cu-like ions. Physical Review A, 1996, 53, 3178-3188.	2.5	15
30	Spectroscopic signature of strong dielectronic recombination in highly ionized xenon produced by irradiating a gas puff with laser. Physical Review A, 1999, 59, 188-194.	2.5	15
31	Excitation-autoionization cross sections and rate coefficients of Zn-like ions. Physical Review A, 1997, 55, 307-317.	2.5	13
32	Identification of 3d \hat{e} 4p transitions in Co-like W xlvii and Tm xliii and in Cu-like W xlvi and Tm xli from laser-produced plasmas. Journal of the Optical Society of America, 1981, 71, 1276.	1.2	11
33	Effects of postcapture electron-ion collisions on dielectronic recombination demonstrated on Ne-like ions. Physical Review A, 2000, 61, .	2.5	11
34	Identification of $n=5$ to $n=4$ transitions in zinc-like ions from yttrium to tin (Y X-Sn XXI). Physica Scripta, 1987, 36, 224-226.	2.5	10
35	Effect of configuration mixing on 3d-4f transitions in highly ionized Ga-, Zn-, and Cu-like ions. Physical Review A, 1991, 44, 5744-5751.	2.5	10
36	Excitation-autoionization cross sections and rate coefficients for Ga-like ions. European Physical Journal D, 2008, 49, 173-184.	1.3	10

#	ARTICLE	IF	CITATIONS
37	Classification of Cu-like 3p-4s and 3p-4d transitions in X-ray spectra from laser-produced plasmas of atoms from Tm to Re in the range $4 \times 10^8 \text{ \AA} \dots$ Physics Letters, Section A: General, Atomic and Solid State Physics, 1983, 99, 84-88.	2.1	9
38	Cu I-, Ni I- Co I-like spectra of cadmium and indium in laser-produced plasma. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, L275-L278.	1.6	8
39	Highly ionized uranium emission in the soft-x-ray region $50 \times 10^8 \text{ \AA} \dots$ Physical Review A, 1989, 39, 3717-3720.	2.5	8
40	Extended analysis of the x-ray spectrum emitted by highly ionized uranium from a laser-produced plasma in the $3.1 \times 10^6 \text{ keV}$ range ($1.9 \times 10^8 < \lambda < 3.9 \text{ \AA} \dots$). Physical Review A, 1991, 44, 5752-5761.	2.5	8
41	Diagnostics of dielectronic processes in laser produced samarium plasma. High Energy Density Physics, 2012, 8, 81-87.	1.5	8
42	A two-step collisional-radiative model for interpreting spectra originating from autoionizing levels. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 161-172.	2.3	7
43	Density diagnostic of highly ionized samarium laser produced plasma using Ni-like spatially resolved spectra. Laser and Particle Beams, 2011, 29, 61-67.	1.0	6
44	ANALYSIS OF QUASI-CONTINUUM BANDS AND LINE SPECTRA OF HIGHLY IONIZED W and Au. Journal De Physique Colloque, 1988, 49, C1-217-C1-220.	0.2	6
45	Excitation-autoionization cross-sections and rate coefficients for Ge-like ions. European Physical Journal D, 2005, 33, 213-220.	1.3	5
46	Density diagnostic of a uranium laser-produced plasma from the line ratio of $\hat{I}^n n=1$ transitions in Ni-like uranium. Physical Review A, 1992, 45, 7480-7483.	2.5	4
47	Excitation-autoionization, dielectronic recombination and line intensities in highly ionized Cu-like ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1995, 54, 261-269.	2.3	4
48	Electron density dependence of dielectronic recombination in highly ionized atoms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2000, 65, 83-90.	2.3	4
49	Investigation of a laser-produced cerium plasma by the analysis of the high-resolution x-ray spectrum. Physical Review A, 2000, 62, .	2.5	3
50	Can a Penning ionization discharge simulate the tokamak scrape-off plasma conditions?. Physica Scripta, 1990, 41, 502-505.	2.5	2
51	Dielectronic recombination from Ni-like Mo in singly-excited levels through the doubly-excited Cu-like $3d^9 4ln \hat{I}^n \hat{I}^n (n \hat{I}^n \hat{I}^n)$ complexes in dense plasmas. Journal of Quantitative Spectroscopy and Radiative Transfer, 2001, 71, 305-315.		2
52	X-ray Spectrum Emitted by a Laser-Produced Cerium Plasma in the 7.5 to $12 \text{ \AA} \dots$ Wavelength Range. Physica Scripta, 2001, 63, 22-28.	2.5	2
53	X-ray spectral measurements and collisional radiative modeling of laser produced iron plasma. High Energy Density Physics, 2011, 7, 124-129.	1.5	2
54	New Results of the Unresolved Transition Arrays Method. International Astronomical Union Colloquium, 1984, 86, 114-114.	0.1	1

#	ARTICLE	IF	CITATIONS
55	3d-4p x-ray spectrum emitted by highly ionized uranium from a laser-produced plasma in the 3.8-4.4 Å wavelength range. Physical Review A, 1992, 45, 7484-7487.	2.5	1
56	Dielectronic recombination and excitation-autoionization in highly ionized heavy elements. , 1998, , .		1
57	Interpretation of Pseudocontinua in the Spectra of Highly Ionized Atoms from Tm To W in Laser Produced Plasmas. International Astronomical Union Colloquium, 1984, 86, 215-218.	0.1	0
58	Analysis of Quasi-Continuum Bands and Line Spectra of Highly Ionized W and Au. International Astronomical Union Colloquium, 1988, 102, 217-220.	0.1	0