

I Nasser

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10453709/publications.pdf>

Version: 2024-02-01

21
papers

394
citations

687363

13
h-index

752698

20
g-index

21
all docs

21
docs citations

21
times ranked

108
citing authors

#	ARTICLE	IF	CITATIONS
1	The rotating Morse potential model for diatomic molecules in the tridiagonal $\langle i J i \rangle$ -matrix representation: I. Bound states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 4245-4257.	1.5	75
2	Dielectronic recombination rates for the He-like ions. Journal of Quantitative Spectroscopy and Radiative Transfer, 1983, 29, 1-8.	2.3	49
3	Electric-field-induced mixing of high Rydberg-state levels in dielectronic recombination: Mg I+ and Ca I+ target ions. Physical Review A, 1986, 33, 2782-2785.	2.5	42
4	$\langle i J i \rangle$ -Matrix approach for the exponential-cosine-screened Coulomb potential. Physica Scripta, 2011, 84, 045001.	2.5	30
5	The effect of static electric fields on dielectronic recombination. I. Basic theory. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1565-1576.	1.6	23
6	The Manning-Rosen potential using J-matrix approach. Molecular Physics, 2013, 111, 1-8.	1.7	23
7	Hellmann potential in the $\langle i J i \rangle$ -matrix approach: I. Eigenvalues. Physica Scripta, 2011, 83, 055004.	2.5	20
8	The effect of static electric field on dielectronic recombination. II. Atomic structure. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 1577-1586.	1.6	18
9	The rotating Morse potential model for diatomic molecules in the $\langle i J i \rangle$ -matrix representation: II. The $\langle i S i \rangle$ -matrix approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 215001.	1.5	17
10	Singular short range potentials in the J-matrix approach. Physics Letters, Section A: General, Atomic and Solid State Physics, 2009, 373, 2408-2412.	2.1	14
11	Scaling behaviour of Fisher and Shannon entropies for the exponential-cosine screened coulomb potential. Molecular Physics, 2017, 115, 1480-1492.	1.7	14
12	Dependence of dielectronic recombination cross sections on the charge states for the vanadium ion. Physical Review A, 1985, 31, 1926-1928.	2.5	13
13	Information entropies for the Morse potential using the J-matrix method. Results in Physics, 2017, 7, 1778-1780.	4.1	13
14	Resonant electron capture to high Rydberg states of Ca II. Physical Review A, 1984, 30, 1558-1560.	2.5	12
15	Effective charges for radiative and Auger transition probabilities. Journal of Quantitative Spectroscopy and Radiative Transfer, 1988, 39, 197-204.	2.3	8
16	Scaling behaviour of the Hellmann potential with different strength parameters. Molecular Physics, 2014, 112, 2608-2613.	1.7	6
17	The Hellmann potential in the J-matrix approach: II. Crossover phenomena and the radiative transition probabilities. Physica Scripta, 2013, 88, 055001.	2.5	5
18	Comparative study of the scaling behavior of the Rényi entropy for He-like atoms. Journal of Physics: Conference Series, 2017, 869, 012011.	0.4	4

#	ARTICLE	IF	CITATIONS
19	Molecular bound and resonance state energies of the modified Pöschl-Teller like potential. Molecular Physics, 2013, 111, 817-824.	1.7	3
20	Study of the 2-channel systems using the J-matrix method. Molecular Physics, 2016, 114, 3328-3340.	1.7	3
21	Scaling behavior of the Yukawa potential in two and three dimensions: a comparative study. Physica Scripta, 2015, 90, 055401.	2.5	2