

Mohsen Vafaei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9090660/publications.pdf>

Version: 2024-02-01

24
papers

281
citations

1039880

9
h-index

940416

16
g-index

24
all docs

24
docs citations

24
times ranked

267
citing authors

#	ARTICLE	IF	CITATIONS
1	Iron-Nanoparticle-Loaded Nitrogen-Doped Carbon Nanotube/Carbon Sheet Composites Derived from MOF as Electrocatalysts for an Oxygen Reduction Reaction. ACS Applied Nano Materials, 2021, 4, 459-477.	2.4	35
2	High-order harmonic generation by static coherent states method in single-electron atomic and molecular systems. Journal of Computational Chemistry, 2021, 42, 1312-1320.	1.5	1
3	Charge migration in caffeine: A real-time dependent density functional theory study. International Journal of Quantum Chemistry, 2021, 121, e26754.	1.0	4
4	Attosecond charge migration following oxygen K-shell ionization in DNA bases and base pairs. Physical Chemistry Chemical Physics, 2021, 23, 23005-23013.	1.3	6
5	Investigation of Boron-Doped Graphdiyne as a Promising Anode Material for Sodium-Ion Batteries: A Computational Study. ACS Omega, 2020, 5, 10034-10041.	1.6	20
6	Phosphorene and graphene flakes under the effect of external electric field as an anode material for high-performance lithium-ion batteries: A first-principles study. Computational Materials Science, 2019, 165, 144-153.	1.4	23
7	Investigation of electron spin dynamic in the bichromatic Kapitza-Dirac effect via frequency ratio and amplitude of laser beams. Physical Review A, 2019, 100, .	1.0	4
8	Contribution of the pre-ionized H ₂ and the ionized H ₂ + subsystems to the HHG Spectra of H ₂ in intense laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 074003.	0.6	4
9	Complementary version of fermion coupled coherent states method and gram-schmidt algorithm: Theory and applications for electronic states of and. Journal of Computational Chemistry, 2018, 39, 679-684.	1.5	3
10	Ab initio study of sodium diffusion and adsorption on boron-doped graphyne as promising anode material in sodium-ion batteries. Physical Chemistry Chemical Physics, 2018, 20, 29889-29895.	1.3	36
11	Four-photon Kapitza-Dirac effect as an electron spin filter. Physical Review A, 2018, 98, .	1.0	6
12	Static Coherent States Method: One- and Two-Electron Laser-Induced Systems with Classical Nuclear Dynamics. Applied Sciences (Switzerland), 2018, 8, 1252.	1.3	2
13	A new version of fermion coupled coherent states method: Theory and applications in simulation of two-electron systems. Chemical Physics Letters, 2016, 653, 60-66.	1.2	4
14	High-order harmonic generation by H ₂ ⁺ in super-intense xuv ultrashort laser pulses. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 105601.	0.6	2
15	High harmonic generation from pre-ionized H ₂ in ultrashort intense laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 245401.	0.6	4
16	Mapping electron dynamics in molecular H ₂ using high-order-harmonic-generation time profiles. Physical Review A, 2012, 85, .	1.0	7
17	Precise description of single and double ionization of hydrogen molecule in intense laser pulses. Journal of Chemical Physics, 2012, 137, 044112.	1.2	9
18	Nuclear classical dynamics of H ₂ in an intense laser field. Journal of Physics B: Atomic, Molecular and Optical Physics, 2011, 44, 165601.	0.6	8

#	ARTICLE	IF	CITATIONS
19	<p>Sequential double ionization of D^+ in an intense laser field: Beyond the Born-Oppenheimer approximation. Physical Review A, 2008, 78, .</p> <p>Nuclear kinetic energy spectra of D^+ in an intense laser field: Beyond the Born-Oppenheimer approximation. Physical Review A, 2008, 78, .</p>	1.0	5
20	<p>Reply to "Comment on 'Detailed instantaneous ionization rate of H_2^+ in intense laser field'". Physical Review A, 2007, 76, .</p>	1.0	17
21	<p>Detailed instantaneous ionization rate of H_2^+ in an intense laser field. Physical Review A, 2006, 74, .</p>	1.0	29
23	<p>Intensity dependence of the H_2^+ ionization rates in Ti:sapphire laser fields above the Coulomb-explosion threshold. Physical Review A, 2005, 71, .</p>	1.0	20
24	<p>A detailed and precise study of the ionization rates of H_2^+ in intense laser fields. Journal of Physics B: Atomic, Molecular and Optical Physics, 2004, 37, 4143-4157.</p>	0.6	30