Francesco Sebastianelli

List of Publications by Year in descending order

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414414 394421 1,024 37 19 32 citations g-index h-index papers 39 39 39 569 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Hydrogen Molecule in the Small Dodecahedral Cage of a Clathrate Hydrate:Â Quantum Five-Dimensional Calculations of the Coupled Translationâ 'Rotation Eigenstates. Journal of Physical Chemistry B, 2006, 110, 24806-24811.	2.6	83
2	H 2 , HD, and D2 inside C60: Coupled translation-rotation eigenstates of the endohedral molecules from quantum five-dimensional calculations. Journal of Chemical Physics, 2008, 129, 064313.	3.0	80
3	Quantum dynamics of coupled translational and rotational motions of H2 inside C60. Journal of Chemical Physics, 2008, 128, 011101.	3.0	74
4	Coupled translation-rotation eigenstates of H2 in C60 and C70 on the spectroscopically optimized interaction potential: Effects of cage anisotropy on the energy level structure and assignments. Journal of Chemical Physics, 2009, 130, 224306.	3.0	69
5	Quantum dynamics of H2, D2, and HD in the small dodecahedral cage of clathrate hydrate: Evaluating H2-water nanocage interaction potentials by comparison of theory with inelastic neutron scattering experiments. Journal of Chemical Physics, 2008, 128, 244715.	3.0	66
6	Quantum dynamics of small H2 and D2 clusters in the large cage of structure II clathrate hydrate: Energetics, occupancy, and vibrationally averaged cluster structures. Journal of Chemical Physics, 2008, 129, 244706.	3.0	59
7	Hydrogen Molecules inside Fullerene C ₇₀ : Quantum Dynamics, Energetics, Maximum Occupancy, And Comparison with C ₆₀ . Journal of the American Chemical Society, 2010, 132, 9826-9832.	13.7	51
8	Path Integral Molecular Dynamics Study of Small H ₂ Clusters in the Large Cage of Structure II Clathrate Hydrate: Temperature Dependence of Quantum Spatial Distributions. Journal of Physical Chemistry C, 2010, 114, 20775-20782.	3.1	48
9	Hydrogen Molecules in the Small Dodecahedral Cage of a Clathrate Hydrate:  Quantum Translationâ°Rotation Dynamics of the Confined Molecules. Journal of Physical Chemistry C, 2007, 111, 2497-2504.	3.1	45
10	Coupled Translationâ [°] Rotation Eigenstates of H ₂ , HD, and D ₂ in the Large Cage of Structure II Clathrate Hydrate: Comparison with the Small Cage and Rotational Raman Spectroscopy. Journal of Physical Chemistry A, 2009, 113, 7601-7609.	2.5	41
11	Dissociative Electron Attachment to Formamide: Direct and Indirect Pathways from Resonant Intermediates. Journal of Chemical Theory and Computation, 2009, 5, 217-221.	5.3	34
12	Electron scattering cross sections from HCN over a broad energy range (0.1–10 000 eV): Influence of the permanent dipole moment on the scattering process. Journal of Chemical Physics, 2012, 137, 124103.	3.0	34
13	Microsolvation of Li+in Small He Clusters. Li+HenSpecies from Classical and Quantum Calculations. Journal of Chemical Theory and Computation, 2005, 1, 1045-1054.	5 . 3	32
14	Hydrogen Molecule in the Small Dodecahedral Cage of a Clathrate Hydrate:  Quantum Translationâ''Rotation Dynamics at Higher Excitation Energies. Journal of Physical Chemistry A, 2007, 111, 12763-12771.	2.5	30
15	One and Two Hydrogen Molecules in the Large Cage of the Structure II Clathrate Hydrate:  Quantum Translationâ^Rotation Dynamics Close to the Cage Wall. Journal of Physical Chemistry A, 2007, 111, 6115-6121.	2.5	27
16	Ab initio quantum dynamics with very weak van der Waals interactions: Structure and stability of small Li2(1Σg+)–(He)n clusters. Journal of Chemical Physics, 2004, 120, 9160-9166.	3.0	25
17	Quantum and classical structures for 4He clusters with the Hâ° impurity. Journal of Chemical Physics, 2003, 119, 8276-8288.	3.0	22
18	Microsolvation of Li+ in bosonic helium clusters. I. Many-body effects on the structures of the small aggregates. Computational Materials Science, 2006, 35, 261-267.	3.0	21

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19	Structural and quantum effects from anionic centers in rare gas clusters: The (Ne)nHâ^ and (Ne)n+1 systems. Journal of Chemical Physics, 2003, 119, 5570-5582.	3.0	20
20	Gas-phase route to polycyclic aromatic hydrocarbon formation in protoplanetary atmospheres: role of stabilized benzyne anions. Monthly Notices of the Royal Astronomical Society, 2011, 415, 425-430.	4.4	16
21	ELECTRON-DRIVEN REACTIONS IN PROTO-PLANETARY ATMOSPHERES: METASTABLE ANIONS OF GASEOUS o-BENZYNE. Astrophysical Journal, 2010, 712, 445-452.	4.5	15
22	Forming (NCCN)ⴒ by quantum scattering: A modeling for Titan's atmosphere. Chemical Physics, 2012, 398, 199-205.	1.9	14
23	Rotational cooling of Li2(1 ?g+) molecules by ultracold collisions with a helium gas buffer. Theoretical Chemistry Accounts, 2004, 112, 263.	1.4	13
24	Modelling ionic nucleation in small neon clusters. International Journal of Mass Spectrometry, 2002, 220, 193-209.	1.5	12
25	Microsolvation of LiH+in Helium Clusters:Â Many-Body Effects and Additivity Models for the Interaction Forces. Journal of Physical Chemistry A, 2005, 109, 4252-4260.	2.5	12
26	HF in clusters of molecular hydrogen: II. Quantum solvation by H2 isotopomers, cluster rigidity, and comparison with CO-doped parahydrogen clusters. Journal of Chemical Physics, 2006, 125, 164313.	3.0	10
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37	Scattering of electrons by gaseous CS($1\hat{1}$): The role of short-range forces on the very-low energy $2\hat{1}$ resonance. Chemical Physics Letters, 2009, 476, 182-185.	2.6	2