Francesco Sebastianelli

List of Publications by Year
in descending order

37	1,024	394421	414414
papers	citations	19 h-index	32 g-index

39	39	39	569
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Attaching electrons to a 3-ring acene: Structures and dynamics of anions in gas-phase anthracene. International Journal of Mass Spectrometry, 2014, 365-366, 377-383.	1.5	5
2	Forming metastable carbon-rich anions in planetary atmospheres: the case of diacetylene. European Physical Journal D, 2013, 67, 1.	1.3	7
3	Electron-attachment rates for carbon-rich molecules in protoplanetary atmospheres: the role of chemical differences. Monthly Notices of the Royal Astronomical Society, 2013, 428, 1181-1184.	4.4	9
4	Electron scattering cross sections from HCN over a broad energy range (0.1â€“10â€‰000 eV): Influence of the permanent dipole moment on the scattering process. Journal of Chemical Physics, 2012, 137, 124103.	3.0	34
5	Forming (NCCN)â¯ by quantum scattering: A modeling for Titanâ€™s atmosphere. Chemical Physics, 2012, 398, 199-205.	1.9	14
6	Modeling Chemical Evolution in a Cold Molecular Plasma: Quantum Dynamics of CF2â€“Intermediates after Electron Attachment. Journal of Physical Chemistry A, 2011, 115, 11531-11543.	2.5	5
7	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
8	ELECTRON-DRIVEN REACTIONS IN PROTO-PLANETARY ATMOSPHERES: METASTABLE ANIONS OF GASEOUS o-BENZYNE. Astrophysical Journal, 2010, 712, 445-452.	4.5	15
9	Path Integral Molecular Dynamics Study of Small H₂ 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
10	Hydrogen Molecules inside Fullerene C₇₀: Quantum Dynamics, Energetics, Maximum Occupancy, And Comparison with C₆₀. Journal of the American Chemical Society, 2010, 132, 9826-9832.	13.7	51
11	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
12	Scattering of electrons by gaseous CS(1Î£): The role of short-range forces on the very-low energy 2Î resonance. Chemical Physics Letters, 2009, 476, 182-185.	2.6	2
13	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
14	Coupled Translationâ¯Rotation Eigenstates of H₂, HD, and D₂ 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
15			

#	Article	IF	Citations
19	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
20	One and Two Hydrogen Molecules in the Large Cage of the Structure II Clathrate Hydrate:â€‰ Quantum Translationâ^'Rotation Dynamics Close to the Cage Wall. Journal of Physical Chemistry A, 2007, 111, 6115-6121.	2.5	27
21	Hydrogen Molecules in the Small Dodecahedral Cage of a Clathrate Hydrate:â€‰ Quantum Translationâ^'Rotation Dynamics of the Confined Molecules. Journal of Physical Chemistry C, 2007, 111, 2497-2504.	3.1	45
22	Hydrogen Molecule in the Small Dodecahedral Cage of a Clathrate Hydrate:â€‰ Quantum Translationâ^'Rotation Dynamics at Higher Excitation Energies. Journal of Physical Chemistry A, 2007, 111, 12763-12771.	2.5	30
23	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
24	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
25	xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd"	3.0	2
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
27	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
28	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
29	Replacement equivalence of Hâ^' and argon in small (Ar)nHâ^' clusters from optimized structure calculations. Journal of Chemical Physics, 2004, 121, 2094-2104.	3.0	8
30	Ab initio quantum dynamics with very weak van der Waals interactions: Structure and stability of small Li2(1Î£g+)â€“(He)n clusters. Journal of Chemical Physics, 2004, 120, 9160-9166.	3.0	25
31	Rotational cooling of Li2(1?g+) molecules by ultracold collisions with a helium gas buffer. Theoretical Chemistry Accounts, 2004, 112, 263.	1.4	13
32	Attachment and Solvation of the H-Dopant:Â Structures of NenH-and ArnH-Clusters from Energy-Optimizing Calculationsâ€. Journal of Physical Chemistry A, 2004, 108, 8633-8640.	2.5	5
33	Finding the global minima of clusters with non-empirical models: a comparison of results. Chemical Physics, 2003, 290, 279-295.	1.9	6
34	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
35	Quantum and classical structures for 4He clusters with the Hâ^' impurity. Journal of Chemical Physics, 2003, 119, 8276-8288.	3.0	22
36	Nucleation dynamics in neon trimer photoionization: a time-dependent modelling. Molecular Physics, 2002, 100, 3699-3710.	1.7	4

#	Article	IF	Citations
37	Modelling ionic nucleation in small neon clusters. International Journal of Mass Spectrometry, 2002, 220, 193-209.	1.5	12