L Gonzalez-Sanchez

List of Publications by Year
in descending order

28	236	933447 10	1058476 14
papers	citations	h-index	g-index

28	28	28	155
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Quantum scattering ofOH(XÎ2)withHe(S1): Propensity features in rotational relaxation at ultralow energies. Physical Review A, 2006, 73, .	2.5	24
2	Computing rotational energy transfers of OD^{â^'}/OH^{â^'}in collisions with Rb: isotopic effects and inelastic rates at cold ion-trap conditions. New Journal of Physics, 2015, 17, 123003.	2.9	17
3	STATE-TO-STATE QUANTUM WAVE PACKET DYNAMICS OF THE LiH + H REACTION ON TWO AB INITIO POTENTIAL ENERGY SURFACES. Astrophysical Journal, 2014, 784, 55.	4.5	16
4	OHâ^'(X1Î£+) collisions with4He(1S) at vanishing energies: a quantum analysis of rotational quenching efficiency. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S1203-S1213.	1.5	15
5	Ionic interactions and collision dynamics in cold traps: rotational quenching of OHâ^'(1Î£+) by Rb(2S). European Physical Journal D, 2008, 49, 85-92.	1.3	13
6	Quenching of molecular ions by He buffer loading at ultralow energies: rotational cooling of OH+(3Î£-) from quantum calculations. European Physical Journal D, 2007, 44, 65-72.	1.3	12
7	Modeling state-selective photodetachment in cold ion traps: Rotational state â€œcrowdingâ€•in small anions. Journal of Chemical Physics, 2019, 151, 144304.	3.0	11
8	HeH⁺ Collisions with H₂: Rotationally Inelastic Cross Sections and Rate Coefficients from Quantum Dynamics at Interstellar Temperatures. Journal of Physical Chemistry A, 2022, 126, 2244-2261.	2.5	11
9	Collisional state-changing of OHâ^' rotations by interaction with Rb atoms in cold traps. Chemical Physics, 2015, 462, 111-118.	1.9	10
10	Rotationally Inelastic Collisions of CN^{â^'} with He: Computing Cross Sections and Rates in the Interstellar Medium. Astrophysical Journal, 2020, 897, 75.	4.5	10
11	Unveiling shape resonances in H + HF collisions at cold energies. Physical Chemistry Chemical Physics, 2020, 22, 24943-24950.	2.8	10
12	Energy-transfer quantum dynamics of HeH+ with He atoms: Rotationally inelastic cross sections and rate coefficients. Journal of Chemical Physics, 2021, 154, 054311.	3.0	10
13	Collisional quenching of rotations in lithium dimers by ultracold helium: The Li2(aÎ£u+3) and Li2+(XÎ£g+2) targets. Journal of Chemical Physics, 2007, 127, 244315.	3.0	9
14	Orientation effects in Cl + H2 inelastic collisions: characterization of the mechanisms. Physical Chemistry Chemical Physics, 2012, 14, 2911.	2.8	8
15	Quenching efficiency of â€œhot" polar molecules by He buffer gas at ultralow energies: quantum results for MgH and LiH rotations. European Physical Journal D, 2008, 48, 75-82.	1.3	7
16	Dynamical regimes on the Cl + H2 collisions: Inelastic rainbow scattering. Journal of Chemical Physics, 2011, 135, 064301.	3.0	7
17	Modeling Quantum Kinetics in Ion Traps: State-changing Collisions for OH+(3Î£-) Ions with He as a Buffer Gas. ChemPhysChem, 2018, 19, 1866-1875.	2.1	7
18	Rotationally inelastic processes of ${{m{C}}}_{2}^{-}$ (${}^{2}{{m{Sigma }}}_{g}^{+}$) colliding with He (1 S) at low temperatures: ab initio interaction potential, state changing rates and kinetic modelling. Journal of Physics B: Atomic, Molecular and Optical Physics, 2020, 53, 025201.	1.5	7

#	Article	IF	Citations
19	A Quantum Mechanical Study of the kâ€“j and kâ€²â€“jâ€² Vector Correlations for the H + LiH â†' Li + H₂ Reaction. Journal of Physical Chemistry A, 2017, 121, 1535-1543.	2.5	6
20	Collisional cooling of internal rotation inMgH+ions trapped with He atoms: Quantum modeling meets experiments in Coulomb crystals. Physical Review A, 2018, 98, .	2.5	5
21	Investigating the electronic properties and structural features of MgH and of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi>MgH</mml:mi></mml:mrow><mml:mo>â	2.5	4
22	Rotational â€˜coolingâ€™ and â€˜heatingâ€™ of OH⁺(³Î£^{â^'}) by collisions with He: quantum dynamics revealing propensity rules under ion trap conditions. Molecular Physics, 2018, 116, 2686-2697.	1.7	4
23	Dynamics of HeHHe⁺ Rotational State Changes Induced by Collision with He: A Possible New Path in Early Universe Chemistry. Journal of Physical Chemistry A, 2021, 125, 3748-3759.	2.5	4
24	Reaction Dynamics and Mechanism of the Cl + HD(v = 1) Reaction: A Quantum Mechanical Study. Journal of Physical Chemistry A, 2013, 117, 7030-7041.	2.5	3
25	State-changing processes for ions in cold traps: LiHâ^'molecules colliding with He as a buffer gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 235201.	1.5	3
26	Efficiency of rovibrational cooling of HeH+ by collisions with He: Cross sections and rate coefficients from quantum dynamics. Journal of Chemical Physics, 2021, 155, 154301.	3.0	2
27	A semiclassical treatment of the â„“ â€“ j correlation in atom-diatom collisions. Journal of Chemical Physics, 2015, 143, 064302.	3.0	1
28	Influence of the Reactants Rotational Excitation on the H + D2(v = 0, j) Reactivity. Journal of Physical Chemistry A, 2015, 119, 12245-12254.	2.5	0