

L Gonzalez-Sanchez

List of Publications by Year in descending order

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155
citing authors

#	ARTICLE	IF	CITATIONS
1	HeH ⁺ Collisions with H ₂ : 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
2	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
3	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
4	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
5	Rotationally inelastic processes of C_2^+ (C_2^+) 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
6	Rotationally Inelastic Collisions of CN ⁺ with He: Computing Cross Sections and Rates in the Interstellar Medium. Astrophysical Journal, 2020, 897, 75.	4.5	10
7	Unveiling shape resonances in H + HF collisions at cold energies. Physical Chemistry Chemical Physics, 2020, 22, 24943-24950.	2.8	10
8	Modeling state-selective photodetachment in cold ion traps: Rotational state "crowding" in small anions. Journal of Chemical Physics, 2019, 151, 144304.	3.0	11
9	Modeling Quantum Kinetics in Ion Traps: State-changing Collisions for OH ⁺ (3 Σ^-) Ions with He as a Buffer Gas. ChemPhysChem, 2018, 19, 1866-1875.	2.1	7
10	Rotational "cooling" and "heating" of OH ⁺ (Σ^+) by collisions with He: quantum dynamics revealing propensity rules under ion trap conditions. Molecular Physics, 2018, 116, 2686-2697.	1.7	4
11	Collisional cooling of internal rotation in MgH ⁺ ions trapped with He atoms: Quantum modeling meets experiments in Coulomb crystals. Physical Review A, 2018, 98, .	2.5	5
12	A Quantum Mechanical Study of the $\langle b \rangle_k \langle i \rangle$ and $\langle b \rangle_k \langle i \rangle \langle j \rangle$ and $\langle b \rangle_k \langle i \rangle \langle j \rangle \langle l \rangle$ Vector Correlations for the H + LiH ⁺ Li + H ₂ Reaction. Journal of Physical Chemistry A, 2017, 121, 1535-1543.	2.5	6
13	Investigating the electronic properties and structural features of MgH and of MgH^+ anions. Physical Review A, 2017, 96, .	2.5	5
14	State-changing processes for ions in cold traps: LiH ⁺ molecules colliding with He as a buffer gas. Journal of Physics B: Atomic, Molecular and Optical Physics, 2016, 49, 235201.	1.5	3
15	A semiclassical treatment of the $\langle b \rangle_k \langle i \rangle$ correlation in atom-diatom collisions. Journal of Chemical Physics, 2015, 143, 064302.	3.0	1
16	Collisional state-changing of OH ⁺ rotations by interaction with Rb atoms in cold traps. Chemical Physics, 2015, 462, 111-118.	1.9	10
17	Influence of the Reactants Rotational Excitation on the H + D ₂ (v = 0, j) Reactivity. Journal of Physical Chemistry A, 2015, 119, 12245-12254.	2.5	0
18	Computing rotational energy transfers of OD ⁺ /OH ⁺ in collisions with Rb: isotopic effects and inelastic rates at cold ion-trap conditions. New Journal of Physics, 2015, 17, 123003.	2.9	17

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19	STATE-TO-STATE QUANTUM WAVE PACKET DYNAMICS OF THE LiH + H REACTION ON TWO AB INITIO POTENTIAL ENERGY SURFACES. <i>Astrophysical Journal</i> , 2014, 784, 55.	4.5	16
20	Reaction Dynamics and Mechanism of the Cl + HD($v=1$) Reaction: A Quantum Mechanical Study. <i>Journal of Physical Chemistry A</i> , 2013, 117, 7030-7041.	2.5	3
21	Orientation effects in Cl + H ₂ inelastic collisions: characterization of the mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 2911.	2.8	8
22	Dynamical regimes on the Cl + H ₂ collisions: Inelastic rainbow scattering. <i>Journal of Chemical Physics</i> , 2011, 135, 064301.	3.0	7
23	Quenching efficiency of "hot" polar molecules by He buffer gas at ultralow energies: quantum results for MgH and LiH rotations. <i>European Physical Journal D</i> , 2008, 48, 75-82.	1.3	7
24	Ionic interactions and collision dynamics in cold traps: rotational quenching of OH($\tilde{1}\Sigma^+$) by Rb(2S). <i>European Physical Journal D</i> , 2008, 49, 85-92.	1.3	13
25	Collisional quenching of rotations in lithium dimers by ultracold helium: The Li ₂ (\tilde{u}^3) and Li ₂ (\tilde{g}^2) targets. <i>Journal of Chemical Physics</i> , 2007, 127, 244315.	3.0	9
26	Quenching of molecular ions by He buffer loading at ultralow energies: rotational cooling of OH($\tilde{3}\Sigma^-$) from quantum calculations. <i>European Physical Journal D</i> , 2007, 44, 65-72.	1.3	12
27	OH($\tilde{X}\tilde{1}\Sigma^+$) collisions with ⁴ He(1S) at vanishing energies: a quantum analysis of rotational quenching efficiency. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2006, 39, S1203-S1213.	1.5	15
28	Quantum scattering of OH($\tilde{X}\tilde{2}$) with He(1S): Propensity features in rotational relaxation at ultralow energies. <i>Physical Review A</i> , 2006, 73, .	2.5	24