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Experimental observation of dynamical resonances in the H + H₂ reaction

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#	Paper	IF	Citations
71	Quantum reactive scattering via the S-matrix version of the Kohn variational principle: Integral cross sections For $H+H_2(\nu=0, j=0) \rightarrow H_2(\nu=1, j=1, 3) + H$ in the energy range $E_{total} = 0.9-1.4$ eV. <i>Chemical Physics Letters</i> , 1988 , 153, 465-470	2.5	110
70	Collision lifetime matrix analysis of the two lowest energy resonances in the collinear $H + H_2$ system. <i>Chemical Physics</i> , 1988 , 127, 97-106	2.3	8
69	Laser femtochemistry. <i>Science</i> , 1988 , 242, 1645-53	33.3	535
68	Experimental study of the dynamics of $D+H_2$ reactive and inelastic collisions below 1.0 eV relative energy. <i>Journal of Chemical Physics</i> , 1989 , 90, 1600-1609	3.9	41
67	The $H+D_2$ reaction: Quantum-state distributions at collision energies of 1.3 and 0.55 eV. <i>Journal of Chemical Physics</i> , 1989 , 91, 7514-7529	3.9	59
66	State-to-state dynamics of $H+HX$ collisions. II. The $H+HX \rightarrow HX^{\nu}+H$ ($X=Cl, Br, I$) reactive exchange and inelastic collisions at 1.6 eV collision energy. <i>Journal of Chemical Physics</i> , 1989 , 90, 4809-4818	3.9	47
65	Quantum reactive scattering via the S-matrix version of the Kohn variational principle: Differential and integral cross sections for $D+H_2 \rightarrow HD+H$. <i>Journal of Chemical Physics</i> , 1989 , 91, 1528-1547	3.9	270
64	Spectroscopic analysis of transition state energy levels: Bending-rotational spectrum and lifetime analysis of H_3 quasibound states. <i>Journal of Chemical Physics</i> , 1989 , 91, 5302-5309	3.9	31
63	In situ measurement of rovibrational populations of H_2 ground electronic state in a plasma by VUV laser absorption. <i>Chemical Physics Letters</i> , 1989 , 155, 475-480	2.5	45
62	Differential cross section (angular distribution) for the reaction $H+H_2(\nu=j=0) \rightarrow H_2(\nu?, ODD j?) + H$ in the energy range 0.90-1.35 eV. <i>Chemical Physics Letters</i> , 1989 , 159, 130-133	2.5	38
61	Hyperspherical close-coupling calculation of integral cross sections for the reaction $H+H_2 \rightarrow H_2+H$. <i>Chemical Physics Letters</i> , 1989 , 163, 178-188	2.5	166
60	A proposed mechanism for resonances in $H+H_2$ collisions. <i>Chemical Physics Letters</i> , 1989 , 162, 7-13	2.5	13
59	The $H + D_2$ reaction: Quasiclassical simulation of nascent HD ro-vibrational state distributions under experimentally probed high-energy conditions. <i>Chemical Physics Letters</i> , 1989 , 162, 503-510	2.5	22
58	On the direct vibrational spectroscopy of transition states. <i>Chemical Physics Letters</i> , 1989 , 158, 122-128	2.5	3
57	Calculations relating to the experimental observation of resonances in the $H+H_2$ reaction. <i>Chemical Physics Letters</i> , 1989 , 159, 123-129	2.5	83
56	Effect of rotation on the reactivity of the $D+H_2(\nu=1) \rightarrow DH+H$ system at translational energies 0.25, 0.35 and 0.45 eV. <i>Chemical Physics Letters</i> , 1989 , 161, 270-276	2.5	16
55	Quantum mechanical interference effects on vibrational excitation in the reaction $D+H_2 \rightarrow HD+H$: Delay times and dependence of the vibrational enhancement on angular momentum. <i>Chemical Physics Letters</i> , 1989 , 156, 281-288	2.5	29

54	Light Scattering Probes of the H + H ₂ Reaction. <i>Israel Journal of Chemistry</i> , 1989 , 29, 427-433	3.4	4
53	Rotational Distributions in the Photodetachment of IHI ⁻ and in the I + HI Reaction: The Influence of IHI Transition State Resonances. <i>Israel Journal of Chemistry</i> , 1989 , 29, 361-367	3.4	5
52	Periodic orbit assignment for spectra of highly excited molecular systems. <i>Philosophical Transactions of the Royal Society: Physical and Engineering Sciences</i> , 1990 , 332, 343-359		11
51	Ultrafast Reaction Dynamics. <i>Physics Today</i> , 1990 , 43, 24-33	0.9	96
50	Optically assisted H + H ₂ exchange reaction and reactive scattering resonances. <i>Chemical Physics Letters</i> , 1990 , 173, 169-174	2.5	8
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48	The D+H ₂ reaction: Comparison of experiment with quantum-mechanical and quasiclassical calculations. <i>Chemical Physics Letters</i> , 1990 , 166, 107-111	2.5	59
47	Rotationally and translationally resolved hot atom collisional excitation of the CO ₂ Fermi mixed bend/stretch vibrational levels by time-dependent diode laser spectroscopy. <i>Journal of Chemical Physics</i> , 1990 , 93, 4922-4937	3.9	7
46	H+H ₂ (0,0)→H ₂ (v ₁ ,j ₁)+H integral cross sections on the double many body expansion potential energy surface. <i>Journal of Chemical Physics</i> , 1990 , 92, 810-812	3.9	35
45	Application of hyperspherical coordinates to four-atom reactive scattering: H ₂ +CN→H+HCN. <i>Journal of Chemical Physics</i> , 1990 , 92, 4178-4190	3.9	106
44	D+H ₂ (v=1, J=1): Rovibronic state to rovibronic state reaction dynamics. <i>Journal of Chemical Physics</i> , 1990 , 92, 2107-2109	3.9	52
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42	H + H ₂ : The Current Status. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990 , 94, 1231-1248		59
41	Ultrafast Reaction Dynamics. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1990 , 94, 1210-1218		2
40	Vibrational structure of hydrogen cyanide up to 18 900 cm ⁻¹ . <i>Journal of the Optical Society of America B: Optical Physics</i> , 1990 , 7, 1835	1.7	72
39	State-to-state dynamics of the H+p-H ₂ →o,p-H ₂ +H reaction: Feshbach resonances and vibrational spectroscopy of the transition state. <i>Journal of Chemical Physics</i> , 1990 , 92, 1083-1097	3.9	57
38	Reactivity bands and fractals in model H ₂ -W(001) collisions. <i>Surface Science</i> , 1990 , 237, 266-272	1.8	4
37	Resonances in heavy + light/heavy atom reactions: influence on differential and integral cross-sections and on transition-state photodetachment spectra. <i>Faraday Discussions of the Chemical Society</i> , 1991 , 91, 17-30		39

36	Effects of translational, rotational, and vibrational energy on the dynamics of the D+H ₂ exchange reaction. A classical trajectory study. <i>Journal of Chemical Physics</i> , 1991 , 94, 7991-8007	3.9	59
35	Theoretische Chemie 1991. <i>Nachrichten Aus Der Chemie</i> , 1992 , 40, 204-209		
34	State-to-state cross sections for low-energy IH ($\bar{I}^{\Sigma} 0 + I$) collisions. <i>Chemical Physics Letters</i> , 1992 , 188, 525-531	2.5	15
33	The geometric phase effect shows up in chemical reactions. <i>Chemical Physics Letters</i> , 1993 , 205, 577-586	2.5	143
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30	Collision energy and product polarization effects in the Ca*(1D ₂) + HCl -> CaCl*(A, B) + H reaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993 , 89, 1493-1499		21
29	The 248 nm photodissociation of KI: Determination of the branching ratio of K(4 2P _J) doublets in the presence of Ar, H ₂ , and N ₂ . <i>Journal of Chemical Physics</i> , 1993 , 99, 9603-9607	3.9	3
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27	Hyperspherical coordinate approach to atomic and other Coulombic three-body systems. <i>Physics Reports</i> , 1995 , 257, 1-83	27.7	305
26	Heterogeneous and homogeneous hydrogen kinetics in plasma chemistry. <i>Plasma Sources Science and Technology</i> , 1995 , 4, 293-301	3.5	16
25	Experimental Studies and Theoretical Predictions for the H + D ₂ -> HD + D Reaction. <i>Science</i> , 1995 , 269, 207-10	33.3	159
24	Reactive collisions with excited-state atoms. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 389-398		28
23	Dynamics of reactive collisions by optical methods. <i>International Reviews in Physical Chemistry</i> , 1996 , 15, 375-427	7	34
22	How to observe the elusive resonances in F + H ₂ reactive scattering. <i>Chemical Physics Letters</i> , 1996 , 256, 465-473	2.5	64
21	Collisional Probing of the Transition-State Structure of a Bimolecular Reaction. <i>Israel Journal of Chemistry</i> , 1997 , 37, 353-358	3.4	2
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15	Alkali-hydrogen reactions. <i>International Reviews in Physical Chemistry</i> , 2002 , 21, 357-383	7	38
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6	Transition State Spectroscopy of Bimolecular Reactions Using Negative Ion Photodetachment. <i>Advances in Chemical Physics</i> , 2007 , 1-61		42
5	Calculation of resonances in the H+H ₂ reaction using the Faddeev-AGS method. <i>International Journal of Quantum Chemistry</i> , 2009 , 36, 103-114	2.1	1
4	Probing state-to-state reaction dynamics using H-atom Rydberg tagging time-of-flight spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 8112-21	3.6	15
3	Quantum Mechanical Scattering Theory for Chemical Reactions. <i>NATO ASI Series Series B: Physics</i> , 1992 , 519-533		0
2	Mode Selective Bimolecular Reactions. <i>Topics in Molecular Organization and Engineering</i> , 1989 , 365-404		4
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