

Robert J Gordon

List of Publications by Year in descending order

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54
papers

1,678
citations

279798

23
h-index

276875

41
g-index

55
all docs

55
docs citations

55
times ranked

848
citing authors

#	ARTICLE	IF	CITATIONS
1	Coherent laser control of the resonance-enhanced multiphoton ionization of HCl. Journal of Chemical Physics, 1991, 94, 8622-8624.	3.0	168
2	Effect of Resonances on the Coherent Control of the Photoionization and Photodissociation of HI and DI. Physical Review Letters, 1997, 79, 4108-4111.	7.8	103
3	Coherent laser control of bound-to-bound transitions of HCl and CO. Journal of Chemical Physics, 1992, 96, 6613-6620.	3.0	102
4	Observing molecular spinning via the rotational Doppler effect. Nature Photonics, 2013, 7, 711-714.	31.4	101
5	Coherent phase control of the photoionization of H ₂ S. Journal of Chemical Physics, 1995, 102, 5863-5866.	3.0	77
6	State resolved translational energy distributions of Cl and HCl in the ultraviolet photodissociation of chloroethylenes. Journal of Chemical Physics, 1995, 103, 5476-5487.	3.0	69
7	The ultraviolet photodissociation dynamics of d ₁ -vinyl chloride. Journal of Chemical Physics, 1993, 99, 2752-2759.	3.0	68
8	Perturbations in the multiphoton ionization spectrum of the F ¹ state of HCl. Journal of Chemical Physics, 1991, 95, 854-864.	3.0	66
9	Mechanism of the ultraviolet photodissociation of chloroethylenes determined from the Doppler profiles, spatial anisotropy, and power dependence of the photofragments. Journal of Chemical Physics, 1992, 97, 4815-4826.	3.0	64
10	The production of O(3P) in the 157 nm photodissociation of CO ₂ . Journal of Chemical Physics, 1990, 92, 2897-2901.	3.0	58
11	Coherent control over the photodissociation of CH ₃ I. Journal of Chemical Physics, 1995, 103, 10800-10803.	3.0	51
12	The kinetic isotope effect in the reaction of O(3P) with H ₂ , D ₂ , and HD. Journal of Chemical Physics, 1985, 82, 1291-1297.	3.0	50
13	Ablation and plasma emission produced by dual femtosecond laser pulses. Journal of Applied Physics, 2008, 104, .	2.5	50
14	The vibrational relaxation of highly excited SF ₆ by Ar. Journal of Chemical Physics, 1987, 87, 5681-5686.	3.0	49
15	The multiplet state distribution of O(3P) produced in the photodissociation of O ₂ at 157 nm. Journal of Chemical Physics, 1991, 94, 2640-2647.	3.0	49
16	Resonantly enhanced two-photon spectroscopy of HCl and DCl in the 77000-87000 cm ⁻¹ region. Journal of Chemical Physics, 1987, 86, 5273-5280.	3.0	46
17	The multiphoton ionization spectrum of HBr. I. 74000 to 85000 cm ⁻¹ . Journal of Chemical Physics, 1990, 93, 4624-4636.	3.0	46
18	Kinetics of the Cl+H ₂ system. II. Abstraction vs exchange in D+HCl. Journal of Chemical Physics, 1983, 78, 3713-3720.	3.0	37

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19	The effect of amplified spontaneous emission on the measurement of the multiplet state distribution of ground state oxygen atoms. <i>Journal of Chemical Physics</i> , 1992, 97, 6363-6368.	3.0	36
20	Doppler profiles and fine-structure branching ratios of O(3Pj) from photodissociation of carbon dioxide at 157 nm. <i>Journal of Chemical Physics</i> , 1991, 95, 7311-7316.	3.0	33
21	Theory and application of time-resolved optoacoustics in gases. <i>Journal of Chemical Physics</i> , 1988, 89, 5560-5567.	3.0	29
22	Ultraviolet elimination of H ₂ from chloroethylenes. <i>Journal of Chemical Physics</i> , 1995, 103, 5488-5498.	3.0	29
23	The intramolecular kinetic isotope effect for the reaction O(3P)+HD. <i>Journal of Chemical Physics</i> , 1990, 92, 7382-7393.	3.0	23
24	The multiplet state distribution of O(3Pj) produced in the 193 nm photodissociation of SO ₂ . <i>Journal of Chemical Physics</i> , 1990, 93, 868-869.	3.0	23
25	Applications of Doppler Spectroscopy to Photofragmentation. <i>Advances in Chemical Physics</i> , 2007, , 1-50.	0.3	23
26	Optoacoustic measurements of IR multiphoton excitation of cis-1,4-dichlorocyclobutene. <i>Journal of Chemical Physics</i> , 1983, 78, 2163-2169.	3.0	21
27	Kinetics of the Cl+H ₂ system. III. The deuterium isotope effect in Cl+H ₂ . <i>Journal of Chemical Physics</i> , 1983, 79, 1252-1258.	3.0	17
28	The rate constant for the reaction O(3P)+D ₂ at low temperatures. <i>Journal of Chemical Physics</i> , 1989, 90, 183-188.	3.0	16
29	Internal Energy of Thermometer Ions Formed by Femtosecond Laser Desorption: Implications for Mass Spectrometric Imaging. <i>Journal of Physical Chemistry C</i> , 2014, 118, 28938-28947.	3.1	16
30	A semiclassical model of the angular distribution of the photofragments of predissociating molecules. <i>Journal of Chemical Physics</i> , 1997, 107, 7209-7213.	3.0	13
31	Coherent Control of the Photoionization of Pyrazine. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2744-2748.	4.6	12
32	The origin of small and large molecule behavior in the vibrational relaxation of highly excited molecules. <i>Journal of Chemical Physics</i> , 1990, 92, 4632-4634.	3.0	11
33	Multichannel quantum defect calculation of the phase lag in the coherent control of HI. <i>Journal of Chemical Physics</i> , 2001, 114, 9402-9407.	3.0	11
34	Dissociative ionization of ICl studied by ion imaging spectroscopy. <i>Journal of Chemical Physics</i> , 2002, 117, 1130-1138.	3.0	11
35	The ultraviolet photodissociation dynamics of 2-chloro-1,1-difluoroethylene. <i>Journal of Chemical Physics</i> , 1997, 106, 1418-1420.	3.0	10
36	Effect of the Gouy phase on the coherent phase control of chemical reactions. <i>Journal of Chemical Physics</i> , 2007, 127, 204302.	3.0	10

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37	Controlling the photoluminescence of gallium arsenide with trains of ultrashort laser pulses. <i>Physical Review B</i> , 2010, 82, .	3.2	10
38	The effect of intermolecular potential well depths on vibrational energy transfer. <i>Journal of Chemical Physics</i> , 1980, 72, 779-780.	3.0	9
39	On the optimum trajectory in semiclassical calculations of inelastic collisions. <i>Journal of Chemical Physics</i> , 1980, 72, 5784-5786.	3.0	8
40	Abstraction vs exchange in the reaction of D+HCl. <i>Journal of Chemical Physics</i> , 1982, 76, 5167-5168.	3.0	8
41	Vibrational relaxation of highly excited molecules: Mode specific vibrational energy transfer from SF6 to N2O. <i>Journal of Chemical Physics</i> , 1987, 86, 1311-1322.	3.0	8
42	The production of vibrationally excited hydrogen molecules. <i>Journal of Applied Physics</i> , 1990, 67, 604-610.	2.5	8
43	Vibrational relaxation of O3(001) by HCl. <i>Journal of Chemical Physics</i> , 1978, 69, 3439-3441.	3.0	5
44	Infrared multiphoton induced isomerization of cis-3,4-dichlorocyclobutene. I. Experimental results. <i>Journal of Chemical Physics</i> , 1983, 78, 6021-6029.	3.0	4
45	Reply to a Comment on: The vibrational relaxation of highly excited molecules. <i>Journal of Chemical Physics</i> , 1988, 89, 3399-3400.	3.0	4
46	Coherent phase control of internal conversion in pyrazine. <i>Journal of Chemical Physics</i> , 2015, 142, 144311.	3.0	4
47	CONTROL OF RADIATIONLESS TRANSITIONS. <i>Advances in Multi-photon Processes and Spectroscopy</i> , 2016, , 1-54.	0.6	3
48	Infrared Multiphoton Induced Isomerization of cis-3,4-Dichlorocyclobutene. III. Pressure Dependence of the Yield. <i>Israel Journal of Chemistry</i> , 1984, 24, 214-217.	2.3	2
49	Vibrational relaxation of highly excited SiF4 and C6F5H by Ar. <i>Journal of Chemical Physics</i> , 1990, 92, 6011-6016.	3.0	2
50	Optical generation of polarized photoluminescence from GaAs(100). <i>Applied Physics Letters</i> , 2012, 100, 141102.	3.3	2
51	A Test for Bottlenecks in the Vibrational Relaxation of CH3Cl and CH3Br by Ar. <i>Laser Chemistry</i> , 1988, 9, 47-62.	0.5	1
52	COHERENT CONTROL OF PHOTODISSOCIATION AND PHOTOIONIZATION. <i>Advanced Series in Physical Chemistry</i> , 2000, , 47-90.	1.5	0
53	Photofragment Imaging Studies of Aligned Molecules. <i>ACS Symposium Series</i> , 2000, , 87-102.	0.5	0
54	Experimental and Theoretical Studies of the Channel Phase in the Coherent Control of Molecular Processes. <i>ACS Symposium Series</i> , 2002, , 47-60.	0.5	0