

Luis Banares

List of Publications by Year in descending order

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254
papers

7,899
citations

47409

49
h-index

87275

74
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257
all docs

257
docs citations

257
times ranked

4608
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging the elusive C-C bond dissociation channel of photoexcited ethyl radical. <i>Molecular Physics</i> , 2022, 120, .	0.8	4
2	An <i>ab initio</i> study of the photodissociation of the vinyl radical. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7387-7395.	1.3	3
3	Conical intersection and coherent vibrational dynamics in alkyl iodides captured by attosecond transient absorption spectroscopy. <i>Journal of Chemical Physics</i> , 2022, 156, 114304.	1.2	10
4	Site-specific hydrogen-atom elimination in photoexcited alkyl radicals. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 2458-2468.	1.3	7
5	Controlled Alloying of Au@Ag Core-Shell Nanorods Induced by Femtosecond Laser Irradiation. <i>Advanced Optical Materials</i> , 2021, 9, 2002134.	3.6	13
6	Femtosecond XUV-IR induced photodynamics in the methyl iodide cation. <i>New Journal of Physics</i> , 2021, 23, 073023.	1.2	4
7	Threshold Photoelectron Spectroscopy of the CH ₂ , CHI, and CI Radicals. <i>Journal of Physical Chemistry A</i> , 2021, 125, 6122-6130.	1.1	1
8	Rod-sphere cluster irradiation with femtosecond laser pulses: cut and paste at the nanoscale. <i>Nanophotonics</i> , 2021, 10, 3153-3159.	2.9	3
9	Formation of Hollow Gold Nanocrystals by Nanosecond Laser Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 670-677.	2.1	15
10	Structural dynamics effects on the electronic predissociation of alkyl iodides. <i>Scientific Reports</i> , 2020, 10, 6700.	1.6	5
11	Femtosecond Double-Pulse Laser Ablation and Deposition of Co-Doped ZnS Thin Films. <i>Nanomaterials</i> , 2020, 10, 2229.	1.9	10
12	Substituent effects on nonadiabatic excited state dynamics: Inertial, steric, and electronic effects in methylated butadienes. <i>Journal of Chemical Physics</i> , 2020, 152, 084308.	1.2	7
13	Velocity map imaging study of the photodissociation dynamics of the allyl radical. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 5995-6003.	1.3	1
14	Tribute to F. Javier Aoiz. <i>Journal of Physical Chemistry A</i> , 2020, 124, 1063-1063.	1.1	0
15	Femtochemistry under scrutiny: Clocking state-resolved channels in the photodissociation of CH ₃ I in the A-band. <i>Journal of Chemical Physics</i> , 2020, 152, 014304.	1.2	12
16	Signature of a conical intersection in the dissociative photoionization of formaldehyde. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 12886-12893.	1.3	3
17	Contribution of resonance energy transfer to the luminescence quenching of upconversion nanoparticles with graphene oxide. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 119-129.	5.0	16
18	Femtosecond predissociation dynamics of ethyl iodide in the B-band. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15695-15704.	1.3	2

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19	Photodissociation Dynamics and Stereodynamics of Methyl Mercaptan and Dimethyl Sulfide from the Second Absorption Band at 201 and 210 nm. <i>Journal of Physical Chemistry A</i> , 2019, 123, 8552-8561.	1.1	3
20	On the Large Near-Field Enhancement on Nanocolumnar Gold Substrates. <i>Scientific Reports</i> , 2019, 9, 13933.	1.6	8
21	Unexpected intersystem crossing. <i>Nature Chemistry</i> , 2019, 11, 103-104.	6.6	6
22	Dynamics of the photodissociation of ethyl iodide from the origin of the B band. A slice imaging study. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 14250-14260.	1.3	6
23	Threshold photoelectron spectrum of the CH ₂ OO Criegee intermediate. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 12763-12766.	1.3	14
24	Site-specific hydrogen-atom elimination in photoexcited ethyl radical. <i>Chemical Science</i> , 2019, 10, 6494-6502.	3.7	11
25	Femtosecond XUV induced dynamics of the methyl iodide cation. <i>EPJ Web of Conferences</i> , 2019, 205, 02020.	0.1	0
26	Weak-field coherent control of photodissociation in polyatomic molecules. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7885-7893.	1.3	8
27	The 3s <i>versus</i> 3p Rydberg state photodissociation dynamics of the ethyl radical. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 23017-23025.	1.3	13
28	Coulomb Explosion Imaging for the Visualization of a Conical Intersection. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 138-143.	2.1	44
29	Photodissociation dynamics of bromiodomethane from the first and second absorption bands. A combined velocity map and slice imaging study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3490-3503.	1.3	11
30	Trajectory surface hopping study of the photodissociation dynamics of methyl radical from the <math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"><mml:mrow><mml:mn>3</mml:mn><mml:mi>s</mml:mi></mml:mrow></math> and <math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si3.gif" overflow="scroll"><mml:mrow><mml:mn>3</mml:mn><mml:msub><mml:mrow><mml:mi>p</mml:mi></mml:mrow><mml:mrow><mml:mi> Rydberg sta. <i>Chemical Physics Letters</i> , 2018, 712, 171-176.	1.2	5
31	Observation of middle-sized metal clusters in femtosecond laser ablation plasmas through nonlinear optics. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 16956-16965.	1.3	22
32	Multidimensional Analysis of Time-Resolved Charged Particle Imaging Experiments. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1227.	1.3	3
33	Using Femtosecond Laser Irradiation To Grow the Belly of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19816-19822.	1.5	12
34	Halogen-atom effect on the ultrafast photodissociation dynamics of the dihalomethanes CH ₂ ICl and CH ₂ BrI. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 20766-20778.	1.3	19
35	An experimental and theoretical investigation of the structure of synthesized ZnO powder. <i>Chemical Physics</i> , 2018, 513, 273-279.	0.9	9
36	Dynamics of molecular systems. <i>European Physical Journal D</i> , 2018, 72, 1.	0.6	0

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37	Femtosecond photodissociation dynamics of chloriodomethane in the first absorption band. <i>Chemical Physics Letters</i> , 2017, 683, 22-28.	1.2	12
38	A velocity-map imaging study of methyl non-resonant multiphoton ionization from the photodissociation of CH ₃ I in the A-band. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160205.	1.6	10
39	A velocity map imaging study of the photodissociation of the methyl iodide cation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7886-7896.	1.3	18
40	Photodissociation of the CH ₃ O and CH ₃ S radical molecules: an <i>ab initio</i> electronic structure study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 31245-31254.	1.3	8
41	Femtosecond laser reshaping yields gold nanorods with ultranarrow surface plasmon resonances. <i>Science</i> , 2017, 358, 640-644.	6.0	233
42	Slice imaging of the UV photodissociation of CH ₂ BrCl from the maximum of the first absorption band. <i>Journal of Chemical Physics</i> , 2017, 147, 013945.	1.2	13
43	XUV/X-ray light and fast ions for ultrafast chemistry. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19533-19535.	1.3	0
44	Strong laser field control of fragment spatial distributions from a photodissociation reaction. <i>Nature Communications</i> , 2017, 8, 1345.	5.8	28
45	Effect of Organic Stabilizers on Silver Nanoparticles Fabricated by Femtosecond Pulsed Laser Ablation. <i>Applied Sciences (Switzerland)</i> , 2017, 7, 793.	1.3	10
46	Imaging the photodissociation dynamics of the methyl radical from the 3s and 3p _z Rydberg states. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17054-17061.	1.3	19
47	Intracellular pH-Induced Tip-to-Tip Assembly of Gold Nanorods for Enhanced Plasmonic Photothermal Therapy. <i>ACS Omega</i> , 2016, 1, 388-395.	1.6	21
48	An <i>ab initio</i> study of the ground and excited electronic states of the methyl radical. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33195-33203.	1.3	21
49	Femtosecond Time-Resolved Photofragment Rotational Angular Momentum Alignment in Electronic Predissociation Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4458-4463.	2.1	11
50	Ablation dynamics of Co/ZnS targets under double pulse femtosecond laser irradiation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3522-3529.	1.3	7
51	Femtosecond predissociation dynamics of the methyl radical from the 3p _z Rydberg state. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 110-118.	1.3	18
52	Imaging the predissociation dynamics of the methyl radical from the 3p _z Rydberg state. <i>Journal of Physics: Conference Series</i> , 2015, 635, 112032.	0.3	0
53	Comparing the electronic relaxation dynamics of aniline and d ₇ -aniline following excitation at 272-238 nm. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 16270-16276.	1.3	32
54	Femtosecond Laser-Controlled Tip-to-Tip Assembly and Welding of Gold Nanorods. <i>Nano Letters</i> , 2015, 15, 8282-8288.	4.5	105

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55	Accurate Time-Dependent Wave Packet Calculations for the $O + H_2 \rightarrow OH + H$ Ion-Molecule Reaction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 11951-11962.	1.1	21
56	Nanopowders $Y_{1-y}Nd_yV_1-xCr_xO_4$ with $y=0$ and 1 ; $x=0, 0.1, 0.2$ and 0.5 synthesized by a sol-gel process. Relationship between morphological characteristics and optical properties. <i>Journal of Luminescence</i> , 2015, 161, 110-116.	1.5	12
57	Strong field laser control of photochemistry. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 13183-13200.	1.3	53
58	New insights into the photodissociation of methyl iodide at 193 nm: stereodynamics and product branching ratios. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29958-29968.	1.3	13
59	Embedded silver nanoparticle multilayers fabricated by femtosecond pulsed laser deposition. <i>Optical Materials Express</i> , 2014, 4, 1943.	1.6	5
60	Artificial neural networks applied to fluorescence studies for accurate determination of N-butylpyridinium chloride concentration in aqueous solution. <i>Sensors and Actuators B: Chemical</i> , 2014, 198, 173-179.	4.0	24
61	Direct evidence of hydrogen-atom tunneling dynamics in the excited state hydrogen transfer (ESHT) reaction of phenol-ammonia clusters. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3757.	1.3	8
62	Imaging the stereodynamics of methyl iodide photodissociation in the second absorption band: fragment polarization and the interplay between direct and predissociation. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26330-26341.	1.3	12
63	Structural dynamics effects on the ultrafast chemical bond cleavage of a photodissociation reaction. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8812.	1.3	47
64	A velocity map imaging study of the photodissociation of the \tilde{A}^f state of ammonia. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 406-413.	1.3	18
65	Pulse shaping control of CH_3I multiphoton ionization at 540 nm. <i>Journal of Modern Optics</i> , 2014, 61, 864-871.	0.6	3
66	Femtosecond Photodissociation Dynamics by Velocity Map Imaging. The Methyl Iodide Case. <i>Springer Series in Chemical Physics</i> , 2014, , 61-97.	0.2	2
67	Control of ultrafast molecular photodissociation by laser-field-induced potentials. <i>Nature Chemistry</i> , 2014, 6, 785-790.	6.6	151
68	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.	1.6	16
69	Fresnel phase retrieval method using an annular lens array on an SLM. <i>Applied Physics B: Lasers and Optics</i> , 2014, 117, 67-73.	1.1	6
70	Femtosecond laser induced damage characterization of transmission volume phase gratings. <i>Applied Physics Letters</i> , 2014, 105, 041905.	1.5	2
71	Strong field control of predissociation dynamics. <i>Faraday Discussions</i> , 2013, 163, 447.	1.6	10
72	Atmospheric contaminants on graphitic surfaces. <i>Carbon</i> , 2013, 61, 33-39.	5.4	72

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73	Stereodynamics of the Photodissociation of Nitromethane at 193 nm: Unravelling the Dissociation Mechanism. <i>Journal of Physical Chemistry A</i> , 2013, 117, 8175-8183.	1.1	21
74	Wave packet study of the methyl iodide photodissociation dynamics in the 266-333 nm wavelength range. <i>European Physical Journal D</i> , 2013, 67, 1.	0.6	7
75	Single diffractive optical element pulse shaper. , 2013, , .		0
76	Dynamic Stark shift of the $3R_{10}$ Rydberg state of CH_3I . EPJ Web of Conferences, 2013, 41, 02035.	0.1	5
77	Programmable quasi-direct space-to-time pulse shaper with active wavefront correction. <i>Optics Letters</i> , 2012, 37, 5067.	1.7	4
78	Wave packet calculations on nonadiabatic effects for the $O(3P)+HF(1\hat{1}\Sigma^+)$ reaction under hyperthermal conditions. <i>Journal of Chemical Physics</i> , 2012, 137, 114309.	1.2	1
79	Photodissociation of pyrrole-ammonia clusters below 218 nm: Quenching of statistical decomposition pathways under clustering conditions. <i>Journal of Chemical Physics</i> , 2012, 137, 094305.	1.2	2
80	Experimental Demonstration of the Quasi-Direct Space-to-Time Pulse Shaping Principle. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 273-275.	1.3	5
81	A femtosecond velocity map imaging study on B -band predissociation in CH_3I . II. The $S_0^1\sigma_1^2$ and $S_0^1\sigma_1^3$ vibronic levels. <i>Journal of Chemical Physics</i> , 2012, 136, 074303.	1.2	31
82	Imaging the molecular channel in acetaldehyde photodissociation: roaming and transition state mechanisms. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 6067.	1.3	34
83	Introduction to the Special Section on $\hat{\epsilon}$ Femto10. The Madrid Conference on Femtochemistry. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2599-2599.	1.1	0
84	Velocity Map Imaging and Theoretical Study of the Coulomb Explosion of CH_3I under Intense Femtosecond IR Pulses. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2669-2677.	1.1	62
85	Accurate Time-Dependent Wave Packet Study of the $Li + H_2^+$ Reaction and Its Isotopic Variants. <i>Journal of Physical Chemistry A</i> , 2012, 116, 132-138.	1.1	22
86	ACCURATE TIME-DEPENDENT WAVE PACKET STUDY OF THE $H^+ + LiH$ REACTION AT EARLY UNIVERSE CONDITIONS. <i>Astrophysical Journal</i> , 2012, 759, 31.	1.6	21
87	The primary step in the ultrafast photodissociation of the methyl iodide dimer. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13295.	1.3	8
88	Photodissociation of pyrrole-ammonia clusters by velocity map imaging: mechanism for the H-atom transfer reaction. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 1082-1091.	1.3	22
89	Wave packet calculations on the effect of the femtosecond pulse width in the time-resolved photodissociation of CH_3I in the A-band. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 2228-2236.	1.3	9
90	Cross-correlation with spatial resolution of a quasi-direct space-to-time (QDST) pulse shaper in the far field. , 2011, , .		1

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91	Influence of ro-vibrational and isotope effects on the dynamics of the $C(^3P) + OD(^2\Sigma^+) \rightarrow CO(^1\Sigma^+) + D(^2S)$ reaction. <i>Molecular Physics</i> , 2011, 109, 543-550.		
92	Holographic gratings implemented in a photopolymerizable glass: application to femtosecond laser pulses shaping. , 2011, , .		0
93	Femtosecond spectral pulse shaping with holographic gratings recorded in photopolymerizable glasses. <i>Optics Express</i> , 2011, 19, 1516.	1.7	10
94	Communication: First observation of ground state $I(2P_{3/2})$ atoms from the CH_3I photodissociation in the B-band. <i>Journal of Chemical Physics</i> , 2011, 135, 021102.	1.2	15
95	A slice imaging and multisurface wave packet study of the photodissociation of CH_3I at 304 nm. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 8186.	1.3	19
96	Slice imaging and wave packet study of the photodissociation of CH_3I in the blue edge of the A-band: evidence of reverse $3Q \rightarrow 1Q$ non-adiabatic dynamics. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 16404.	1.3	30
97	A 4D wave packet study of the CH_3I photodissociation in the A-band. Comparison with femtosecond velocity map imaging experiments. <i>Journal of Chemical Physics</i> , 2011, 135, 154306.	1.2	23
98	Imaging the radical channel in acetaldehyde photodissociation: Competing mechanisms at energies close to the triplet exit barrier. <i>Journal of Chemical Physics</i> , 2010, 133, 064303.	1.2	40
99	A femtosecond velocity map imaging study on B-band predissociation in CH_3I . I. The band origin. <i>Journal of Chemical Physics</i> , 2010, 132, 234313.	1.2	33
100	Femtosecond Pulsed Laser Deposition of Nanostructured CdS Films. <i>Journal of Physical Chemistry C</i> , 2010, 114, 4864-4868.	1.5	34
101	Nanoparticle TiO_2 Films Prepared by Pulsed Laser Deposition: Laser Desorption and Cationization of Model Adsorbates. <i>Journal of Physical Chemistry C</i> , 2010, 114, 17409-17415.	1.5	24
102	Generation of femtosecond paraxial beams with arbitrary spatial distribution. <i>Optics Letters</i> , 2010, 35, 652.	1.7	21
103	Femtosecond time-resolved photophysics and photodissociation dynamics of 1-iodonaphthalene. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7988.	1.3	4
104	Diffraction control of femtosecond pulses. , 2010, , .		0
105	Dynamics of the $C(^1D) + H_2$ reaction: A comparison of crossed molecular beam experiments with quantum mechanical and quasiclassical trajectory calculations on the first two singlet ($1^1A'$ and $1^1A''$) potential energy surfaces. <i>Molecular Physics</i> , 2010, 108, 373-380.	0.8	29
106	Imaging transient species in the femtosecond A-band photodissociation of CH_3I . <i>Journal of Chemical Physics</i> , 2009, 131, 134311.	1.2	34
107	The photodissociation of CH_3I in the red edge of the A-band: Comparison between slice imaging experiments and multisurface wave packet calculations. <i>Journal of Chemical Physics</i> , 2009, 131, 174309.	1.2	75
108	Quantum Mechanical Wave Packet and Quasiclassical Trajectory Calculations for the $Li + H_2$ Reaction. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14657-14663.	1.1	18

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109	Time-dependent wave packet and quasiclassical trajectory study of the $C(P3)+OH(X\hat{\epsilon}\%{\hat{2}})\hat{\dagger}'CO(X\hat{\epsilon}\%{\hat{1}}+)+H(S2)$ reaction at the state-to-state level. <i>Journal of Chemical Physics</i> , 2009, 130, 194303.	1.2	30
110	Generation of CdS clusters using laser ablation: the role of wavelength and fluence. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 681-687.	1.1	11
111	Femtosecond pulsed laser deposition of nanostructured TiO ₂ films. <i>Applied Surface Science</i> , 2009, 255, 5206-5210.	3.1	35
112	Wave packet study of the CD3I photodissociation dynamics in the A band. <i>Chemical Physics Letters</i> , 2009, 477, 271-275.	1.2	9
113	Azafullerene-like Nanosized Clusters. <i>ACS Nano</i> , 2009, 3, 3352-3357.	7.3	11
114	Masked Velocity Map Imaging: A One-Laser-Beam Doppler-Free Spectroscopic Technique. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3840-3843.	1.1	8
115	Poly(ethylene glycol) cationization with alkali metals in matrix-assisted laser desorption ionization investigated with the solvent-free method. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 859-863.	1.1	9
116	Nanofoaming dynamics in biopolymers by femtosecond laser irradiation. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 93, 209-213.	1.1	18
117	Femtosecond Transition State Imaging of the $i>A</i>$ Band CH_3I Photodissociation. <i>ChemPhysChem</i> , 2008, 9, 1245-1249.	1.0	23
118	Solvent-Free MALDI Investigation of the Cationization of Linear Polyethers with Alkali Metals. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8530-8535.	1.2	31
119	Real wave packet and quasiclassical trajectory studies of the $H^{+}+LiH$ reaction. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 821-827.	1.3	29
120	Direct Observation of the Primary Bond-Twisting Dynamics of Stilbene Anion Radical. <i>Journal of the American Chemical Society</i> , 2008, 130, 6708-6709.	6.6	11
121	On the dynamics of the $H^{+}+D_2(v=0,j=0)\hat{\dagger}'HD+D^{+}$ reaction: A comparison between theory and experiment. <i>Journal of Chemical Physics</i> , 2008, 128, 014304.	1.2	57
122	A detailed experimental and theoretical study of the femtosecond A-band photodissociation of CH ₃ I. <i>Journal of Chemical Physics</i> , 2008, 128, 244309.	1.2	91
123	Imaging the photodissociation of CH ₃ SH in the first and second absorption bands: The $CH_3(XI\hat{f}A12)+SH(XI\hat{2})$ channel. <i>Journal of Chemical Physics</i> , 2007, 126, 024301.	1.2	14
124	Femtosecond multichannel photodissociation dynamics of CH ₃ I from the A band by velocity map imaging. <i>Journal of Chemical Physics</i> , 2007, 126, 021101.	1.2	57
125	Slice imaging of the photodissociation of acetaldehyde at 248 nm. Evidence of a roaming mechanism. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 6123.	1.3	60
126	Differential and Integral Cross Sections of the $N(2D) + H_2 \hat{\dagger}' NH + H$ Reaction from Exact Quantum and Quasi-Classical Trajectory Calculations. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2376-2384.	1.1	37

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127	Pulse shaping control of alignment dynamics in N ₂ . Journal of Raman Spectroscopy, 2007, 38, 543-550.	1.2	24
128	Nanofoaming in the surface of biopolymers by femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 254, 1179-1184.	3.1	32
129	Wave packet and quasiclassical trajectory calculations for the N(2D)+H ₂ reaction and its isotopic variants. Chemical Physics, 2007, 332, 119-131.	0.9	22
130	Submicron foaming in gelatine by nanosecond and femtosecond pulsed laser irradiation. Applied Surface Science, 2007, 253, 6420-6424.	3.1	28
131	Experimental and Theoretical Differential Cross Sections for the N(2D) + H ₂ Reaction. Journal of Physical Chemistry A, 2006, 110, 817-829.	1.1	95
132	Quasiclassical trajectory study of the Cl+CH ₄ reaction dynamics on a quadratic configuration interaction with single and double excitation interpolated potential energy surface. Journal of Chemical Physics, 2006, 125, 124316.	1.2	37
133	Dynamics of Insertion Reactions of H ₂ Molecules with Excited Atoms. Journal of Physical Chemistry A, 2006, 110, 12546-12565.	1.1	86
134	Velocity Map Imaging Study of the Photodissociation of CH ₃ SH: Internal Energy Distribution of the SH Fragment. ChemPhysChem, 2006, 7, 1682-1686.	1.0	10
135	Latest findings on the dynamics of the simplest chemical reaction. Physica Scripta, 2006, 73, C6-C13.	1.2	13
136	Adaptive control of molecular alignment. Physical Review A, 2006, 73, .	1.0	81
137	Quantum mechanical and quasiclassical trajectory scattering calculations for the C(D1)+H ₂ reaction on the second excited 1A ⁺ potential energy surface. Journal of Chemical Physics, 2006, 124, 154314.	1.2	22
138	A detailed quantum mechanical and quasiclassical trajectory study on the dynamics of the H ₂ +H ₂ ⁺ exchange reaction. Journal of Chemical Physics, 2006, 125, 094314.	1.2	70
139	Influence of rotation and isotope effects on the dynamics of the N(D ₂)+H ₂ reactive system and of its deuterated variants. Journal of Chemical Physics, 2005, 123, 224301.	1.2	47
140	Dynamics of the O(1D) D ₂ reaction: A comparison between crossed molecular beam experiments and quasiclassical trajectory calculations on the lowest three potential energy surfaces. Molecular Physics, 2005, 103, 1703-1714.	0.8	26
141	Quantum mechanical and quasi-classical trajectory reaction probabilities and cross sections for the S(1D) + H ₂ , D ₂ , HD insertion reactions. Physical Chemistry Chemical Physics, 2005, 7, 627-634.	1.3	62
142	Dynamics of the C(D1)+D ₂ reaction: A comparison of crossed molecular-beam experiments with quasiclassical trajectory and accurate statistical calculations. Journal of Chemical Physics, 2005, 122, 234309.	1.2	66
143	Low-Temperature Rotational Relaxation of CO in Self-Collisions and in Collisions with Ne and He. Journal of Physical Chemistry A, 2005, 109, 9402-9413.	1.1	8
144	Quasiclassical Trajectory Study of the F + CH ₄ Reaction Dynamics on a Dual-Level Interpolated Potential Energy Surface. Journal of Physical Chemistry A, 2005, 109, 8459-8470.	1.1	55

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145	The H+H ₂ reactive system. Progress in the study of the dynamics of the simplest reaction. International Reviews in Physical Chemistry, 2005, 24, 119-190.	0.9	114
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