H H Fielding

List of Publications by Year
in descending order

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38 papers	849 citations	430874 18 h-index	501196 28 g-index
39 all docs	39 docs citations	39 times ranked	630 citing authors

#	Article	IF	Citations
1	Creating Excess Electrons at the Anatase TiO2(101) Surface. Topics in Catalysis, 2017, 60, 392-400.	2.8	22
2	Quantum dynamics study of the competing ultrafast intersystem crossing and internal conversion in the â€œchannel 3â€•region of benzene. Journal of Chemical Physics, 2012, 137, 204310.	3.0	37
3	Optical phase and the ionization-dissociation dynamics of excited H2. Journal of Chemical Physics, 2010, 132, 024313.	3.0	12
4	Development of a new photoelectron spectroscopy instrument combining an electrospray ion source and photoelectron imaging. Review of Scientific Instruments, 2010, 81, 123101.	1.3	26
5	Control of ionization and dissociation by optical pulse trains. Physical Chemistry Chemical Physics, 2010, 12, 8948.	2.8	21
6	Ultrafast dynamics through conical intersections and intramolecular vibrational energy redistribution in styrene. Physical Chemistry Chemical Physics, 2010, 12, 15751.	2.8	21
7	Competing ultrafast intersystem crossing and internal conversion in the â€œchannel 3â€•region of benzene. Physical Chemistry Chemical Physics, 2010, 12, 15607.	2.8	102
8	Frequency doubling and Fourier domain shaping the output ofÂaÂfemtosecond optical parametric amplifier: easy access toÂtuneable femtosecond pulse shapes in the deep ultraviolet. Applied Physics B: Lasers and Optics, 2009, 94, 181-186.	2.2	19
9	Localization of electronic wave packets in H₂. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 074022.	1.5	15
10	Observation of the Stark effect in Ï…⁺= 0 Rydberg states of NO: a comparison between predissociating and bound states. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 185102.	1.5	5
11	Excitation, dynamics, and control of rotationally autoionizing Rydberg states of H2. Journal of Chemical Physics, 2007, 127, 164301.	3.0	25
12	Coherent control in the continuum: autoionization of Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 897-908.	1.5	6
13	Observation of the Stark effect in Ï…+= 0 Rydberg states of NO with a matrix-diagonalization analysis. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 1369-1381.	1.5	11
14	Rotational-state-selective field ionization of molecular Rydberg states. Physical Review A, 2007, 76, .	2.5	9
15	Interfering Rydberg wave packets in Na. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 1907-1922.	1.5	25
16	Optical control of the quantum-state distribution of vibrational wave packets using trains of phase-locked pulses. Molecular Physics, 2005, 103, 491-499.	1.7	9
17	Femtosecond lasers in gas phase chemistry. Chemical Society Reviews, 2005, 34, 949.	38.1	37
18	RYDBERG WAVEPACKETS IN MOLECULES: From Observation to Control. Annual Review of Physical Chemistry, 2005, 56, 91-117.	10.8	36

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19	Rydberg wave packets in molecules. Physical Chemistry Chemical Physics, 2003, 5, 3567.	2.8	9
20	The role of phase in molecular Rydberg wave packet dynamics. Journal of Chemical Physics, 2003, 119, 3085-3091.	3.0	17
21	Observation and control of dissociating and autoionizing Rydberg electron wave packets in NO. Journal of Chemical Physics, 2003, 119, 5842-5847.	3.0	28
22	Optical Control of the Rotational Angular Momentum of a Molecular Rydberg Wave Packet. Physical Review Letters, 2003, 91, 243601.	7.8	32
23	Controlling the radial dynamics of Rydberg wavepackets in Xe using phase-locked optical pulse sequences. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3683-3696.	1.5	13
24	Controlling the Angular Momentum Composition of a Rydberg Electron Wave Packet. Physical Review Letters, 2002, 89, 263004.	7.8	27
25	Wave-packet isotope separation using phase-locked pulses. Physical Review A, 2002, 65, .	2.5	24
26	Calculations of the dynamics of phase-locked vibrational wave packets in Na2+: Youngâ€™s double slit experiment in a molecule. Journal of Chemical Physics, 2000, 112, 9343-9352.	3.0	6
27	The dynamics of Rydberg electron wavepackets in NO. Faraday Discussions, 2000, 115, 63-70.	3.2	10
28	Vibrationally Autoionizing Rydberg Wave Packets in NO. Physical Review Letters, 1999, 83, 2552-2555.	7.8	19
29	Vibrationally autoionizing electron wave packets in a combined Coulombic and electric field. Physical Review A, 1999, 60, 4774-4780.	2.5	3
30	Observation of autoionizing Rydberg-electron wave packets in Xe. Physical Review A, 1999, 59, 2186-2189.	2.5	9
31	A nano-stabilization technique for low repetition rate phase-sensitive optical experiments. Measurement Science and Technology, 1998, 9, 378-382.	2.6	7
32	Angle-resolved spin-orbit autoionization dynamics of Rydberg electron wave packets in Ar: A time-dependent MQDT approach. Journal of Chemical Physics, 1998, 108, 7653-7661.	3.0	10
33	Rydberg electron wavepacket dymanics in atoms and molecules. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 363-376.	3.4	4
34	Rovibrational and rotational autoionization dynamics of Rydberg electron wavepackets in H2: A time-dependent multichannel quantum-defect theory approach. Journal of Chemical Physics, 1997, 106, 6588-6595.	3.0	12
35	The role of the quantum defect and of high-order dispersion in rydberg wave packets. Physica Scripta, 1995, T58, 62-68.	2.5	24
36	Rydberg-electron wave-packet dynamics in parallel electric and magnetic fields and evidence for stabilization. Physical Review A, 1995, 51, 611-619.	2.5	38

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37	Rydberg electron wavepacket dynamics in molecular hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5883-5891.	1.5	15
38	Observation of Rydberg wave packet dynamics in a Coulombic and magnetic field. Physical Review Letters, 1994, 72, 3783-3786.	7.8	98