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	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
2	Observation of Rydberg wave packet dynamics in a Coulombic and magnetic field. Physical Review Letters, 1994, 72, 3783-3786.	7.8	98
3	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
4	Femtosecond lasers in gas phase chemistry. Chemical Society Reviews, 2005, 34, 949.	38.1	37
5	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
6	RYDBERG WAVEPACKETS IN MOLECULES: From Observation to Control. Annual Review of Physical Chemistry, 2005, 56, 91-117.	10.8	36
7	Optical Control of the Rotational Angular Momentum of a Molecular Rydberg Wave Packet. Physical Review Letters, 2003, 91, 243601.	7.8	32
8	Observation and control of dissociating and autoionizing Rydberg electron wave packets in NO. Journal of Chemical Physics, 2003, 119, 5842-5847.	3.0	28
9	Controlling the Angular Momentum Composition of a Rydberg Electron Wave Packet. Physical Review Letters, 2002, 89, 263004.	7.8	27
10	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
11	Interfering Rydberg wave packets in Na. Journal of Physics B: Atomic, Molecular and Optical Physics, 2005, 38, 1907-1922.	1.5	25
12	Excitation, dynamics, and control of rotationally autoionizing Rydberg states of H2. Journal of Chemical Physics, 2007, 127, 164301.	3.0	25
13	The role of the quantum defect and of high-order dispersion in rydberg wave packets. Physica Scripta, 1995, T58, 62-68.	2.5	24
14	Wave-packet isotope separation using phase-locked pulses. Physical Review A, 2002, 65, .	2.5	24
15	Creating Excess Electrons at the Anatase TiO2(101) Surface. Topics in Catalysis, 2017, 60, 392-400.	2.8	22
16	Control of ionization and dissociation by optical pulse trains. Physical Chemistry Chemical Physics, 2010, 12, 8948.	2.8	21
17	Ultrafast dynamics through conical intersections and intramolecular vibrational energy redistribution in styrene. Physical Chemistry Chemical Physics, 2010, 12, 15751.	2.8	21
18	Vibrationally Autoionizing Rydberg Wave Packets in NO. Physical Review Letters, 1999, 83, 2552-2555.	7.8	19

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19	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
20	The role of phase in molecular Rydberg wave packet dynamics. Journal of Chemical Physics, 2003, 119, 3085-3091.	3.0	17
21	Rydberg electron wavepacket dynamics in molecular hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 1994, 27, 5883-5891.	1.5	15
22	Localization of electronic wave packets in H₂. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 074022.	1.5	15
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	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
25	Optical phase and the ionization-dissociation dynamics of excited H2. Journal of Chemical Physics, 2010, 132, 024313.	3.0	12
26	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
27	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
28	The dynamics of Rydberg electron wavepackets in NO. Faraday Discussions, 2000, 115, 63-70.	3.2	10
29	Observation of autoionizing Rydberg-electron wave packets in Xe. Physical Review A, 1999, 59, 2186-2189.	2.5	9
30	Rydberg wave packets in molecules. Physical Chemistry Chemical Physics, 2003, 5, 3567.	2.8	9
31	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
32	Rotational-state-selective field ionization of molecular Rydberg states. Physical Review A, 2007, 76, .	2.5	9
33	A nano-stabilization technique for low repetition rate phase-sensitive optical experiments. Measurement Science and Technology, 1998, 9, 378-382.	2.6	7
34	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
35	Coherent control in the continuum: autoionization of Xe. Journal of Physics B: Atomic, Molecular and Optical Physics, 2007, 40, 897-908.	1.5	6
36	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

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37	Rydberg electron wavepacket dymanics in atoms and molecules. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 363-376.	3.4	4
38	Vibrationally autoionizing electron wave packets in a combined Coulombic and electric field. Physical Review A, 1999, 60, 4774-4780.	2.5	3