Bo Y Chang

List of Publications by Year
in descending order

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50	658	567281 15	642732 23
papers	citations	h-index	g-index

50	50	50	220
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Selective Excitation of Vibrational States by Shaping of Light-Induced Potentials. Physical Review Letters, 2000, 85, 4241-4244.	7.8	72
2	Coherent population transfer in three-levelÎ›systems by chirped laser pulses: Minimization of the intermediate-level population. Physical Review A, 1999, 59, 4494-4501.	2.5	44
3	Light-induced trapping of molecular wave packets in the continuum. Physical Review A, 2003, 68, .	2.5	36
4	Selective excitation of diatomic molecules by chirped laser pulses. Journal of Chemical Physics, 2000, 113, 4901.	3.0	34
5	Transferring vibrational population between electronic states of diatomic molecules via light-induced-potential shaping. Journal of Chemical Physics, 2001, 114, 8820-8830.	3.0	34
6	Preparing wave functions by the chirped adiabatic passage scheme in manifolds of levels. Physical Review A, 2001, 64, .	2.5	29
7	Manipulating bond lengths adiabatically with light. Journal of Chemical Physics, 2003, 119, 10653-10657.	3.0	26
8	Further aspects on the control of photodissociation in light-induced potentials. Journal of Chemical Physics, 2009, 131, 204314.	3.0	22
9	Bond breaking in light-induced potentials. Journal of Chemical Physics, 2009, 130, 124320.	3.0	21
10	Ultrafast Control of the Internuclear Distance with Parabolic Chirped Pulses. Journal of Physical Chemistry A, 2012, 116, 2691-2697.	2.5	21
11	Quantum Control in Multilevel Systems. Advances in Atomic, Molecular and Optical Physics, 2018, 67, 151-256.	2.3	21
12	Inducing changes in the bond length of diatomic molecules by time-symmetric chirped pulses. Physical Review A, 2010, 82, .	2.5	19
13	Stationary molecular wave packets at nonequilibrium nuclear configurations. Journal of Chemical Physics, 2004, 121, 11118.	3.0	18
14	Adiabatic squeezing of molecular wave packets by laser pulses. Journal of Chemical Physics, 2005, 122, 204316.	3.0	18
15	Selective photodissociation in diatomic molecules by dynamical Stark-shift control. Journal of Chemical Physics, 2008, 128, 104315.	3.0	16
16	Molecular events in the light of strong fields: A lightâ€induced potential scenario. International Journal of Quantum Chemistry, 2016, 116, 608-621.	2.0	15
17	Quantum Wave-Packet Dynamics in Spin-Coupled Vibronic States. Journal of Physical Chemistry A, 2012, 116, 11427-11433.	2.5	14
18	Ultrafast coherent control of giant oscillating molecular dipoles in the presence of static electric fields. Journal of Chemical Physics, 2013, 139, 084306.	3.0	14

#	Article	IF	Citations
19	Oscillating molecular dipoles require strongly correlated electronic and nuclear motion. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 043001.	1.5	14
20	Electronic and vibrational population transfer in diatomic molecules as a function of chirp for different pulse bandwidths. Journal of Chemical Physics, 2003, 118, 6270-6279.	3.0	12
21	Ultrafast photodissociation assisted by strong non-resonant Stark effect: the â€˜straddlingâ€™ control pulse. Journal of Modern Optics, 2009, 56, 811-821.	1.3	11
22	Bond lengths of diatomic molecules periodically driven by light: The p-LAMB scheme. Journal of Chemical Physics, 2011, 134, 104301.	3.0	11
23	Twoâ€Pulse Control of Largeâ€Amplitude Vibrations in H₂⁺. ChemPhysChem, 2013, 14, 1405-1412.	2.1	10
24	Laser adiabatic manipulation of the bond length of diatomic molecules with a single chirped pulse. Journal of Chemical Physics, 2011, 134, 144303.	3.0	9
25	Ultrafast Population Inversion without the Strong Field Catch: The Parallel Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1724-1728.	4.6	9
26	Pump-dump iterative squeezing of vibrational wave packets. Journal of Chemical Physics, 2005, 123, 244101.	3.0	8
27	Wave-packet squeezing by iterative pump-dump control in diatomic molecules. Physical Review A, 2006, 73, .	2.5	8
28	Optimizing Raman Ladder Climbing:Â Theory and Application in Na2. Journal of Physical Chemistry A, 2001, 105, 8864-8870.	2.5	7
29	Quantum-state-selective two-photon excitation of multilevel systems assisted by the Stark shift. Physical Review A, 2007, 75, .	2.5	7
30	State-Selective Excitation of Quantum Systems via Geometrical Optimization. Journal of Chemical Theory and Computation, 2015, 11, 4005-4010.	5.3	7
31	High vibrational excitation and bond breaking by generalized Raman ladder climbing. Chemical Physics Letters, 2001, 341, 373-381.	2.6	6
32	Adiabatic and diabatic transformations as physical resources for wave packet squeezing. Physical Review A, 2006, 73, .	2.5	6
33	â€œStirred, Not Shakenâ€• Vibrational Coherence Can Speed Up Electronic Absorption. Journal of Physical Chemistry A, 2015, 119, 9091-9097.	2.5	6
34	Nonresonant electronic transitions induced by vibrational motion in light-induced potentials. Physical Chemistry Chemical Physics, 2016, 18, 25265-25270.	2.8	6
35	Anomalous Rabi Oscillations in Multilevel Quantum Systems. Physical Review Letters, 2018, 120, 133201.	7.8	6
36	The time-scale of nonlinear events driven by strong fields: can one control the spin coupling before ionization runs over?. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124027.	1.5	5

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37	The Hydrogen molecular cation as a molecular antenna. Journal of Physics B: Atomic, Molecular and Optical Physics, 2015, 48, 174005.	1.5	5
38	Manipulating the singletâ€“triplet transition in ion strings by nonresonant dynamic Stark effect. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	4
39	Control defeasance by anti-alignment in the excited state. Physical Chemistry Chemical Physics, 2019, 21, 23620-23625.	2.8	4
40	Circularly polarized light-induced potentials and the demise of excited states. Physical Chemistry Chemical Physics, 2022, 24, 2966-2973.	2.8	4
41	Squeezing the ground vibrational state of diatomic molecules. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 180, 241-247.	3.9	3
42	Raman excitation of rovibrational coherent and incoherent states via adiabatic passage assisted by dynamic Stark effect. Chemical Physics, 2007, 338, 228-236.	1.9	3
43	Protecting and accelerating adiabatic passage with time-delayed pulse sequences. Physical Chemistry Chemical Physics, 2016, 18, 13443-13448.	2.8	3
44	Laser control of the RbCs bond. European Physical Journal D, 2017, 71, 1.	1.3	3
45	Grid-Based Ehrenfest Model To Study Electronâ€“Nuclear Processes. Journal of Physical Chemistry A, 2019, 123, 7171-7176.	2.5	3
46	Laser-assisted ultrafast photoassociation in HeH2+. Chemical Physics, 2014, 442, 18-25.	1.9	2
47	Geometrical Optimization Approach to Isomerization: Models and Limitations. Journal of Physical Chemistry A, 2017, 121, 8280-8287.	2.5	2
48	Squeezing Rb2 wave packets with mixed adiabatic and dynamic strategies. , 2006, , 578-582.		0
49	Manipulating the singletâ€“triplet transition in ion strings by nonresonant dynamic Stark effect. Highlights in Theoretical Chemistry, 2014, , 79-88.	0.0	0
50	From Rabi oscillations to adiabatic passage in multi-level quantum systems with a train of weak pulses. , 2018, , .		0