Martin Cizek

List of Publications by Year
in descending order

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55 papers	1,318 citations	394421 19 h-index	345221 36 g-index
55 all docs	55 docs citations	55 times ranked	957 citing authors

#	Article	IF	Citations
1	Vibrational excitation in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:mrow><mml:mn> system: Nonlocal model of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">Î£</mml:mi><mml:mi mathvariant="normal">Î</mml:mi></mml:mrow></mml:math>	2.5	7
2	Vibronic Coupling through the Continuum in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>e</mml:mi><mml:mo>+</mml:mo><mml:mrow><mml:msub><mml:mrow><mml:mi>CO</mml:mi> System. Physical Review Letters, 2022, 129, .	7.8	11
3	Autodetachment spectroscopy of the metastable HDâ¯ and ${{m{D}}}_{2}^{-}$ anions. Journal of Physics: Conference Series, 2020, 1412, 132049.	0.4	0
4	Electron-impact vibrational excitation of isocyanic acid HNCO. Physical Review A, 2020, 102, .	2.5	7
5	Associative detachment in Li+Hâ¯ collisions. European Physical Journal D, 2018, 72, 1.	1.3	3
6	Resonances and Dissociative Electron Attachment in HNCO. Physical Review Letters, 2018, 121, 143402.	7.8	25
7	Isotopic effects in the interaction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mo>â¯</mml:mo></mml:msup></mml:math> with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">D</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">H</m	2.5	6
8	Lowest autodetachment state of the water anion. European Physical Journal D, 2016, 70, 1.	1.3	4
9	Experimental results for H2 formation from Hâ¯ and H and implications for first star formation. AIP Conference Proceedings, 2015, , .	0.4	1
10	Electron Transfer and Associative Detachment in Low-Temperature Collisions of D^{â€“} with H. Journal of Physical Chemistry Letters, 2015, 6, 4762-4766.	4.6	5
11	Interaction of Oâ¯ and H2 at low temperatures. Journal of Chemical Physics, 2015, 142, 014304.	3.0	12
12	Model of electron tunneling coupled to torsional vibrations: Exact solution and study of performance of approximation methods. Physica E: Low-Dimensional Systems and Nanostructures, 2014, 63, 36-44.	2.7	0
13	Metastable states of diatomic hydrogen anions. Journal of Physics: Conference Series, 2014, 488, 012034.	0.4	2
14	Metastable states of D<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>â¯</mml:mo></mml:msup></mml:mrow></mml:math>observed by foil-induced Coulomb explosion imaging. Physical Review A, 2013, 87, .	2.5	9
15	Isotope effect for associative detachment:<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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19	Electron scattering in HCl: An improved nonlocal resonance model. Physical Review A, 2010, 81, .	2.5	16
20	Long-lived metastable anions of hydrogen halides. International Journal of Mass Spectrometry, 2009, 280, 149-153.	1.5	7
21	Switching the Conductance of a Single Molecule by Photoinduced Hydrogen Transfer. Journal of Physical Chemistry C, 2009, 113, 10315-10318.	3.1	51
22	Improved nonlocal resonance model for electron â€“ HCl collisions. Journal of Physics: Conference Series, 2009, 194, 052036.	0.4	0
23	On irregular oscillatory structures in resonant vibrational excitation cross-sections in diatomic molecules. Chemical Physics, 2008, 347, 250-256.	1.9	11
24	Vibronic Effects in Single Molecule Conductance: First-Principles Description and Application to Benzenealkanethiolates between Gold Electrodes. Journal of Physical Chemistry C, 2008, 112, 9880-9890.	3.1	58
25	Dissociative electron attachment to HBr: A temperature effect. Physical Review A, 2007, 75, .	2.5	9
26	Long-lived anionic states ofH2, HD,D2, andT2. Physical Review A, 2007, 75, .	2.5	19
27	Giant structures in low-energy electronâ€“deuterium-iodide elastic scattering cross section. Physical Review A, 2007, 75, .	2.5	1
28	Long-lived states of molecular hydrogen anion. AIP Conference Proceedings, 2007, , .	0.4	0
29	Quantum Dynamics of Photoinduced Electron-Transfer Reactions in Dyeâ^'Semiconductor Systems:â€‰ First-Principles Description and Application to Coumarin 343â^'TiO₂. Journal of Physical Chemistry C, 2007, 111, 11970-11981.	3.1	157
30	Vibronic effects on resonant electron conduction through single molecule junctions. Chemical Physics Letters, 2006, 430, 355-360.	2.6	36
31	Dissociative electron attachment and vibrational excitation ofH2by low-energy electrons: Calculations based on an improved nonlocal resonance model. II. Vibrational excitation. Physical Review A, 2006, 73, .	2.5	37
32	NARROW RESONANCES IN DISSOCIATIVE ELECTRON ATTACHMENT AND VIBRATIONAL EXCITATION IN H₂. , 2006, , .		0
33	Isotope effects in vibrational excitation and dissociative electron attachment of DCl and DBr. European Physical Journal D, 2005, 35, 225-230.	1.3	8
34	Charge transport through a flexible molecular junction. European Physical Journal D, 2005, 55, 189-202.	0.4	32
35	Experimental and Theoretical Evidence for Long-Lived Molecular Hydrogen AnionsH2â^'andD2â^'. Physical Review Letters, 2005, 94, 223003.	7.8	40
36	Dissociative electron attachment and vibrational excitation ofH2by low-energy electrons: Calculations based on an improved nonlocal resonance model. Physical Review A, 2004, 70, .	2.5	55

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37	Theory of vibrationally inelastic electron transport through molecular bridges. Physical Review B, 2004, 70, .	3.2	113
38	Electron spectra for associative detachment in low-energy collisions of ClÂand BrÂwith H and DÂ†. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 3513-3531.	1.5	13
39	Vibrational excitation of hydrogen fluoride by low-energy electrons: theory and experiment. Journal of Physics B: Atomic, Molecular and Optical Physics, 2003, 36, 2837-2849.	1.5	34
40	Calculation of rate constants for dissociative attachment of low-energy electrons to hydrogen halides HCl, HBr, and HI and their deuterated analogs. Physical Review A, 2002, 66, .	2.5	14
41	Effects of Interchannel Coupling in Associative Detachment: Electron Spectra forH+Clâ^'andH+Brâ^'Collisions. Physical Review Letters, 2002, 89, 073201.	7.8	13
42	Energy distributions ofHe+andHe2+ions formed in ultracoldHe(23S1)+He(23P2)collisions. Physical Review A, 2002, 66, .	2.5	5
43	Study of Dissociative Electron Attachment to HI Molecule by using R-matrix Representation for Green's Function. Physica Scripta, 2002, 65, 328-335.	2.5	8
44	Dissociative attachment of low-energy electrons to vibrationally excited hydrogen molecules. European Physical Journal D, 2002, 52, 29-40.	0.4	4
45	Title is missing!. European Physical Journal D, 2002, 52, 1057-1070.	0.4	18
46	Associative detachment in low-energy collisions between hydrogen atoms and atomic halogen anions. Journal of Physics B: Atomic, Molecular and Optical Physics, 2001, 34, 983-1004.	1.5	13
47	Inelastic low-energy electron collisions with the HBr and DBr molecules: Experiment and theory. Physical Review A, 2001, 63, .	2.5	62
48	Schwingerâ€"Lanczos algorithm for calculation of off-shell -matrix elements and Wynn's epsilon algorithm. Computer Physics Communications, 2000, 131, 41-51.	7.5	6
49	Electron scattering in cooled HCl: boomerang structures and outer-well resonances in elastic and vibrational excitation cross sections. Journal of Physics B: Atomic, Molecular and Optical Physics, 2000, 33, L209-L213.	1.5	35
50	Associative detachment, dissociative attachment, and vibrational excitation of HCl by low-energy electrons. Physical Review A, 1999, 60, 2873-2881.	2.5	51
51	Generalization of the nonlocal resonance model for low-energy electron collisions with hydrogen halides: the variable threshold exponent. Theoretical Chemistry Accounts, 1998, 100, 31-35.	1.4	17
52	Nuclear dynamics of the H collision complex beyond the local approximation: associative detachment and dissociative attachment to rotationally and vibrationally excited molecules. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 2571-2583.	1.5	86
53	On shooting methods for calculation of potential resonances. Journal of Physics A, 1997, 30, 4137-4137.	1.6	1
54	Resonances in low-energy rare-gas atom scattering. European Physical Journal D, 1996, 46, 55-65.	0.4	2

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55	On shooting methods for calculation of potential resonances. Journal of Physics A, 1996, 29, 6325-6342.	1.6	13