

Henri Bachau

List of Publications by Year in descending order

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140
papers

3,353
citations

172207

29
h-index

174990

52
g-index

141
all docs

141
docs citations

141
times ranked

1188
citing authors

#	ARTICLE	IF	CITATIONS
1	Applications of B-splines in atomic and molecular physics. Reports on Progress in Physics, 2001, 64, 1815-1943.	8.1	608
2	Correlation effects in two-photon single and double ionization of helium. Physical Review A, 2003, 68, .	1.0	148
3	Time-dependent theoretical description of molecular autoionization produced by femtosecond xuv laser pulses. Physical Review A, 2006, 73, .	1.0	93
4	Position and widths of autoionizing states in the helium isoelectronic sequence above the N=2 continuum. Journal of Physics B: Atomic and Molecular Physics, 1984, 17, 1771-1784.	1.6	81
5	Probing electron-electron correlation with attosecond pulses. European Physical Journal D, 2003, 26, 7-13.	0.6	80
6	Observation of Autoionization Suppression through Coherent Population Trapping. Physical Review Letters, 1995, 74, 2431-2434.	2.9	70
7	Correlated Electron and Nuclear Dynamics in Strong Field Photoionization of H^+ . Physical Review Letters, 2013, 110, 113001.	2.9	69
8	Resonance parameters and properties of helium-like doubly excited states: $2 \leq Z \leq 10$. Atomic Data and Nuclear Data Tables, 1991, 48, 167-212.	0.9	61
9	Stabilization of autoionizing states during ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1992, 25, L109-L115.	0.6	61
10	Evidence for highly correlated electron dynamics in two-photon double ionization of helium. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 051001.	0.6	61
11	Effects of coherent coupling of autoionizing states on multiphoton ionization. Physical Review A, 1996, 53, 2587-2597.	1.0	58
12	Resonance parameters and properties of beryllium-like doubly excited states: $4 \leq Z \leq 10$. Atomic Data and Nuclear Data Tables, 1990, 44, 305-348.	0.9	57
13	Theory of laser-induced transitions between autoionizing states of He. Physical Review A, 1986, 34, 4785-4792.	1.0	55
14	Theory of the photoelectron spectrum in double ionization through two-photon absorption from He(2s2). Physical Review A, 1991, 44, R9-R12.	1.0	54
15	Enhancement and Control of H ₂ Dissociative Ionization by Femtosecond VUV Laser Pulses. Physical Review Letters, 2006, 96, 143001.	2.9	54
16	Coulomb-Volkov approach of atom ionization by intense and ultrashort laser pulses. Physical Review A, 2001, 63, .	1.0	52
17	Attosecond timescale analysis of the dynamics of two-photon double ionization of helium. New Journal of Physics, 2008, 10, 025017.	1.2	52
18	Angular momenta determination of N ₅ ⁺ (3L3L') capture states in N ₇ ⁺ -He collisions. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, L695-L703.	1.6	48

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19	Feshbach-model potential approach for the study of resonant and bound states of Be-like ions. <i>Physical Review A</i> , 1990, 41, 3534-3544.	1.0	47
20	Excitation and ionization of molecular hydrogen by ultrashort vuv laser pulses. <i>Physical Review A</i> , 2007, 75, .	1.0	44
21	One- and two-photon double ionization of beryllium with ultrashort ultraviolet laser fields. <i>Physical Review A</i> , 2004, 69, .	1.0	42
22	Auto transfer to Rydberg states and indirect stabilization following double capture. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 4181-4199.	0.6	40
23	Step-ladder Rabi oscillations in molecules exposed to intense ultrashort vuv pulses. <i>Physical Review A</i> , 2006, 74, .	1.0	38
24	Discretization techniques applied to the study of multiphoton excitation of resonances in helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1993, 26, 4449-4463.	0.6	34
25	Clocking Ultrafast Wave Packet Dynamics in Molecules through UV-Induced Symmetry Breaking. <i>Physical Review Letters</i> , 2012, 108, 063009.	2.9	34
26	Double electron capture in collisions of the helium-like ions N ⁵⁺ , O ⁶⁺ and Ne ⁸⁺ with helium atoms. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, L121-L127.	0.6	33
27	Investigation by high resolution electron spectroscopy of the helium-like 3lnl' Rydberg series in double capture processes at low collision velocity: auto transfer to Rydberg states and electron stabilization. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 4243-4261.	0.6	31
28	Transfer and excitation in ion-atom collisions at high impact velocities: a unified continuum distorted wave treatment of resonant and non-resonant modes in a four-body approach. II. Application to the collision S ¹⁵⁺ (1s)+H(1s). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1992, 25, 839-852.	0.6	30
29	Dissociation and ionization dynamics of H ₂ ⁺ with short laser pulses: The L ₂ approach. <i>Physical Review A</i> , 2004, 69, .	1.0	30
30	Publisher Correction: Angle-dependent interferences in electron emission accompanying stimulated Compton scattering from molecules. <i>Communications Physics</i> , 2022, 5, .	2.0	30
31	Two-photon ionization of H ₂ ⁺ by short laser pulses. <i>Physical Review A</i> , 2005, 71, .	1.0	29
32	Time-dependent analysis of the mechanism for two-photon double escape in helium: from very long to attosecond time scales. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 091001.	0.6	28
33	Stimulated Compton Scattering in Two-Color Ionization of Hydrogen with keV Electromagnetic Fields. <i>Physical Review Letters</i> , 2014, 112, 073001.	2.9	28
34	Multiple phase control in Mg through the continuum. <i>Physical Review A</i> , 1999, 60, 4781-4787.	1.0	27
35	Theory of two-photon double ionization of helium at the sequential threshold. <i>Physical Review A</i> , 2011, 83, .	1.0	27
36	The ionization of one-electron diatomic molecules in strong and short laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2003, 36, 817-824.	0.6	25

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37	Coupled continuum perturbative Feshbach approach to calculate total and partial widths: $1,3\text{Se}(3\text{Inl})$ resonant states of $\text{He}, \text{C}^{4+}, \text{N}^{5+}$, and O^{6+} . <i>Physical Review A</i> , 1989, 40, 4245-4255.	1.0	24
38	Properties of $\text{Ne}^{8+}(4, 4)$ and $\text{Ne}^{8+}(3, n)$ states populated during ion-atom collisions. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 795-806.	0.6	24
39	Resonant and non-resonant ionization of helium by XUV ultrashort and intense laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2000, 33, 2101-2116.	0.6	24
40	Reproducibility of Observables and Coherent Control in Molecular Photoionization: From Continuous Wave to Ultrashort Pulsed Radiation. <i>Journal of Physical Chemistry A</i> , 2012, 116, 2704-2712.	1.1	24
41	Method for the calculation of multiphoton and above-threshold ionization with discretized bases in two-electron atoms. <i>Physical Review A</i> , 1990, 42, 5801-5804.	1.0	23
42	Heating of conduction band electrons by intense femtosecond laser pulses. <i>Europhysics Letters</i> , 2004, 67, 301-306.	0.7	23
43	Ab initio time-dependent method to study the hydrogen molecule exposed to intense ultrashort laser pulses. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2007, 161, 182-187.	0.8	23
44	Exploring above-threshold ionization of hydrogen in an intense x-ray laser field through nonperturbative calculations. <i>Physical Review A</i> , 2012, 85, .	1.0	23
45	Electronic correlation effects in a model of endohedral Mg ($\text{Mg}@\text{C}_{60}$). <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, 1119-1131.	0.6	22
46	Extraction of the absolute value of the photoelectron spectrum probability density by means of the resolvent technique. <i>Physical Review A</i> , 2012, 85, .	1.0	22
47	Two-photon detachment with excitation of H-. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2863-2873.	0.6	21
48	Electron angular distribution in above-threshold two-photon detachment of. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 2417-2424.	0.6	20
49	Ionization of H-by a strong ultrashort laser pulse. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2001, 34, 857-867.	0.6	20
50	Resonant effects in the Coulomb explosion of $\text{H}+2$ by ultrashort laser pulses. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2005, 38, L99-L105.	0.6	20
51	Two-photon above-threshold ionization of hydrogen over the photon energy range from 15 eV to 50 keV. <i>Physical Review A</i> , 2011, 84, .	1.0	20
52	Comparison of the conventional and pseudopotential Feshbach methods: $\text{N}^{5+}(3\text{l})$. <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 147 Td (3l')1Se</i> 2261-2272.	0.6	19
53	Excitation of doubly excited states of helium by ion impact in the Born approximation. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1991, 24, 2015-2028.	0.6	19
54	Theory of two-photon spectroscopy of autoionizing states in helium and beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1995, 28, 2367-2384.	0.6	19

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55	Dynamics of two-photon double-ionization of helium at the attosecond scale. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, S427-S435.	0.6	19
56	Electron heating in the conduction band of insulators irradiated by ultrashort laser pulses. Physical Review B, 2006, 74, .	1.1	19
57	Theory of intense-field ionization and above-threshold ionization of helium through multiple resonances. Physical Review Letters, 1991, 66, 3241-3244.	2.9	17
58	Three-photon ionization cross section calculations of Be. Journal of Physics B: Atomic, Molecular and Optical Physics, 1993, 26, 75-83.	0.6	17
59	Investigation of the properties of (3, 3, 3) triply excited states of multicharged ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1996, 29, 4365-4379.	0.6	17
60	Molecular resolvent-operator method: Electronic and nuclear dynamics in strong-field ionization. Physical Review A, 2014, 89, .	1.0	16
61	Two-electron effects in the multiphoton ionization of magnesium with 400-nm 150-fs pulses. Physical Review A, 1999, 60, 3916-3923.	1.0	15
62	Quantum calculations of correlated electron-ion collisions in a strong laser field. Physics of Plasmas, 2006, 13, 103108.	0.7	15
63	Two-photon ionization of hydrogen and hydrogenlike ions: Retardation effects on differential and total generalized cross sections. Physical Review A, 2012, 86, .	1.0	15
64	Introduction of short-range interactions in continuum distorted-wave theory of electron capture for ion-atom collisions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 1403-1410.	0.6	14
65	Electron correlation properties of doubly excited states. Berylliumlike vs heliumlike systems. Journal of Chemical Physics, 1991, 94, 5011-5020.	1.2	14
66	Nuclear Interference in the Coulomb Explosion of H ₂ +in Short vuv Laser Fields. Physical Review Letters, 2009, 102, 123001.	2.9	14
67	Correlations in the doubly excited states of O ₆ ⁺ (3l, n'l') with n=3, 4. Journal of Physics B: Atomic, Molecular and Optical Physics, 1988, 21, 3547-3558.	0.6	13
68	Theory of single and double ionization of helium through two-photon excitation of the 1 S 0 e (1) doubly excited resonance. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1989, 11, 37-44.	1.0	13
69	Wannier Representation of Intraband High-Order Harmonic Generation. Physical Review Letters, 2018, 121, 143902.	2.9	13
70	Creation of high energy electronic excitations in inorganic insulators by intense femtosecond laser pulses. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 240-243. Two-photon double ionization of He ($\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle Tj ETQq1 1 0.784314 rgBT /Ove$)	0.8	12
71			

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73	Discretization techniques applied to the study of two-photon ionization in systems with two active electrons. <i>Physical Review A</i> , 1991, 44, 4516-4520.	1.0	11
74	Two-photon above-threshold ionization of magnesium. <i>Physical Review A</i> , 2002, 65, .	1.0	11
75	Multiphoton ionization of one-electron diatomic molecules: the discretization approach for the two-centre problem. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2002, 35, 509-521.	0.6	11
76	Coulomb explosion of H ₂ +wave packet in ultrashort XUV laser fields. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2007, 40, 463-474.	0.6	11
77	Electron heating through a set of random levels in the conduction band of insulators induced by femtosecond laser pulses. <i>Applied Physics A: Materials Science and Processing</i> , 2010, 98, 679-689.	1.1	11
78	A novel estimate of the two-photon double-ionization cross section of helium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 175601.	0.6	11
79	Above-Threshold Ionization of Quasiperiodic Structures by Low-Frequency Laser Fields. <i>Physical Review Letters</i> , 2015, 115, 163602.	2.9	11
80	Two-photon ionization and simultaneous excitation of beryllium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1994, 27, 4909-4914.	0.6	10
81	Two-color photoionization of helium above the N=2 ionization threshold. <i>Physical Review A</i> , 1999, 60, 1371-1376.	1.0	10
82	Three-photon above-threshold ionization of magnesium. <i>Physical Review A</i> , 2003, 68, .	1.0	10
83	Control of $H < mml:mrow < mml:msub < mml:mrow < mml:mi mathvariant="normal" > H < /mml:mi > < /mml:mrow > < mml:mrow < mml:mn > 2 < /mml:mn > < /mml:mrow > < /mml:msub > 2 < /mml:mrow > < /mml:math >$ dissociative ionization in the nonlinear regime using vacuum ultraviolet free-electron laser pulses. <i>Physical Review Letters</i> , 2018, 121, 103002.		
84	Two-photon double ionization of atoms in attosecond x-ray radiation fields. <i>Physical Review A</i> , 2010, 81, .	1.0	9
85	Analysing a two-electron wavepacket by semiclassically propagating its Fourier components in space. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2010, 43, 245601.	0.6	9
86	Electric-field effects on the photodetachment of below the threshold. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1996, 29, 1451-1466.	0.6	8
87	Fluorescence yields for Rydberg series in ions belonging to the He isoelectronic sequence. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 203-214.	0.6	8
88	Asymmetry parameters in two-photon detachment of below 1 eV. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1998, 31, L801-L806.	0.6	8
89	Generation of extreme ultraviolet tunable frequencies from mixed fields. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1999, 16, 1880.	0.9	8
90	One-, two- and three-photon ionization of calcium. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2004, 37, 3521-3534.	0.6	8

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91	Two-color ionization of hydrogen close to threshold with keV photons. <i>Physical Review A</i> , 2014, 90, .	1.0	8
92	Direct and Sequential Two-Photon Double Ionization of Two-Electron Quantum Dots. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1574-1583.	1.1	8
93	Role of angular correlations and total angular momentum on partial autoionisation widths of $O6+(3,3)$ and $(4,4)$ states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1989, 22, 2865-2874.	0.6	7
94	On the calculation of doubly excited states. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1997, 30, 4163-4174.	0.6	7
95	$(2\hat{1}^3,2e)$ total and differential cross-section calculations for helium with $\tilde{\sigma} = 40\hat{a}^{\circ}50$ eV. <i>European Physical Journal: Special Topics</i> , 2009, 175, 175-180.	1.2	7
96	Above-threshold ionization of hydrogen and hydrogen-like ions by X-ray pulses. <i>Open Physics</i> , 2013, 11, .	0.8	7
97	Stimulated Raman scattering of an ultrashort XUV radiation pulse by a hydrogen atom. <i>Physical Review A</i> , 2017, 95, .	1.0	7
98	Comment on 'Calculations of energies of intrashell doubly excited states of beryllium-like ions'. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1990, 23, L83-L85.	0.6	6
99	Theoretical partial widths of the $1P^{\hat{a}}(3s3p)$ resonant state of the He atom. <i>Physical Review A</i> , 1990, 41, 6544-6547.	1.0	6
100	Transfer and excitation in high-energy He ⁺ -He collisions: V. Electronic continuum influence on ejected electron distributions and TE cross sections. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 1999, 32, 2041-2055.	0.6	6
101	Orientation effects in the Coulomb-explosion ionization of anH ₂ +wave packet by short xuv pulses: Applicability of the fixed-nuclei approximation. <i>Physical Review A</i> , 2008, 77, .	1.0	6
102	Theory of photoionization of two-electron quantum dots in the resonance region in THz and mid-IR fields. <i>Physical Review A</i> , 2016, 94, .	1.0	6
103	On the possibility of radiation amplification through multiphoton pumping of autoionizing states. <i>Optics Communications</i> , 1991, 83, 331-336.	1.0	5
104	Properties of high-lying doubly excited states of Ne ⁸⁺ populated during Ne ¹⁰⁺ + He collisions. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1995, 98, 78-80.	0.6	5
105	Stimulated Raman scattering in hydrogen by ultrashort laser pulse in the keV regime. <i>Europhysics Letters</i> , 2016, 114, 23001.	0.7	5
106	Stimulated Compton scattering of soft X-ray radiation by hydrogen. <i>Journal of Modern Optics</i> , 2016, 63, 402-410.	0.6	5
107	Autoionization of Diatomic Quasi-Molecules. <i>Europhysics Letters</i> , 1987, 3, 559-564.	0.7	4
108	Autoionization from stark-mixed states. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987, 23, 284-286.	0.6	4

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109	Two-photon ionization spectra of calcium above the $4s1/2$ threshold. Journal of Physics B: Atomic, Molecular and Optical Physics, 2006, 39, 2693-2708.	0.6	4
110	Multiple ionization of atoms with xuv attosecond pulses: Two-photon double ionization of helium with 50 eV photons. Journal of Physics: Conference Series, 2010, 212, 012001.	0.3	4
111	Nuclear interference processes in the dissociation of H_2^+ in short vuv laser fields. Physical Review A, 2012, 86, .	1.0	4
112	Stimulated Raman transitions from the metastable $2s$ state of hydrogen. Journal of Physics B: Atomic, Molecular and Optical Physics, 2017, 50, 174003.	0.6	4
113	Nondipole effects in helium ionization by intense soft x-ray laser pulses. European Physical Journal D, 2019, 73, 1.	0.6	4
114	Proton-hydrogen-atom scattering in a nearly resonant laser field. Physical Review A, 1984, 30, 2752-2755.	1.0	3
115	Investigation of a two-autoionizing-level system coupled by a strong laser field. Journal of Modern Optics, 1996, 43, 953-962.	0.6	3
116	The hydrogen atom in an external DC electric field: the discretization approach. Journal of Physics B: Atomic, Molecular and Optical Physics, 1999, 32, 1169-1179.	0.6	3
117	Above-threshold ionization near the $3p4d$ autoionizing state in magnesium. Physical Review A, 2005, 71, .	1.0	3
118	Dynamics of the direct double ionization of helium by two XUV photons. Journal of Physics: Conference Series, 2008, 141, 012013.	0.3	3
119	Two-photon double ionization of metastable $2s$ state of helium. Physical Review A, 2014, 89, .	1.0	2
120	Angle-dependent interferences in electron emission accompanying stimulated Compton scattering from molecules. Communications Physics, 2021, 4, .	2.0	3
121	The helium atom and helium-like ions' interaction with XFEL radiation. Journal of Modern Optics, 2003, 50, 353-364.	0.6	2
122	Laser-induced breakup of helium $2s$ state. Physical Review A, 2014, 89, .	1.0	2
123	Study of the $\{m He\}^{2+}_2$ dynamics induced by a strong IR field by means of the resolvent technique. Journal of Physics B: Atomic, Molecular and Optical Physics, 2014, 47, 124028.	0.6	2
124	Wave packet dynamics in molecular excited electronic states. Journal of Physics: Conference Series, 2014, 488, 012017.	0.3	2
125	Radiation amplification through autoionizing resonances formed by laser assisted dielectronic recombination in He. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1995, 33, 211-217.	1.0	1
126	Laser-assisted dielectronic recombination in ions. Journal of Physics B: Atomic, Molecular and Optical Physics, 1998, 31, 3263-3280.	0.6	1

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127	Energy- and angle-resolved ionization of H^{2+} interacting with xuv subfemtosecond laser pulses. Physical Review A, 2015, 92, .	1.0	1
128	Radial and Angular Electron Ejection Patterns of Two-Electron Quantum Dots in THz Fields. Atoms, 2020, 8, 38.	0.7	1
129	Asymmetric electron angular distributions in H^{2+} induced by intense ultrashort soft-x-ray laser pulses. Physical Review A, 2022, 105, .	1.0	1
130	Theoretical lifetime and decay mode of multiply excited ions produced during ion-atom collisions. AIP Conference Proceedings, 1993, .	0.3	0
131	Two-photon dissociative ionization of H_2 by ultrashort xuv laser pulses. Journal of Physics: Conference Series, 2009, 194, 032054.	0.3	0
132	Nuclear interference in the Coulomb explosion of H_2^{+} in short vuv laser fields. Journal of Physics: Conference Series, 2009, 194, 032042.	0.3	0
133	Non-linear processes related to laser-atom interaction in XUV domain. , 2012, .		0
134	Two-photon ionization of ground state hydrogen from the photoelectric threshold up to 40 keV. Journal of Physics: Conference Series, 2012, 388, 022054.	0.3	0
135	Closure approximation in the theory of two-photon double ionization of atoms. Journal of Physics: Conference Series, 2012, 388, 032004.	0.3	0
136	Quenching H_2 autoionization interferences with ultrashort xuv laser pulses. Journal of Physics: Conference Series, 2012, 388, 022062.	0.3	0
137	Above-threshold ionization of one-active electron atomic systems in the x-ray regime: a non-perturbative treatment. Journal of Physics: Conference Series, 2012, 388, 032041.	0.3	0
138	Correlated electron and nuclear dynamics in strong field photoionization of H^{2+} . Journal of Physics: Conference Series, 2014, 488, 032017.	0.3	0
139	Molecular Resolvent Operator for H^{2+} molecule. Journal of Physics: Conference Series, 2015, 635, 112107.	0.3	0
140	Compton scattering of keV photons at helium atom near the $He^{++}(1s)$ threshold for small momentum transfer. European Physical Journal D, 2021, 75, 1.	0.6	0