

Hanspeter Helm

List of Publications by Year in descending order

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163
papers

7,019
citations

53751

45
h-index

66879

78
g-index

165
all docs

165
docs citations

165
times ranked

4328
citing authors

#	ARTICLE	IF	CITATIONS
1	Far-infrared vibrational spectra of all-trans, 9-cis and 13-cis retinal measured by THz time-domain spectroscopy. <i>Chemical Physics Letters</i> , 2000, 332, 389-395.	1.2	303
2	Metal-insulator phase transition in aVO ₂ thin film observed with terahertz spectroscopy. <i>Physical Review B</i> , 2006, 74, .	1.1	298
3	Collective vibrational modes in biological molecules investigated by terahertz time-domain spectroscopy. <i>Biopolymers</i> , 2002, 67, 310-313.	1.2	287
4	Mass spectrometric determination of partial electron impact ionization cross sections of He, Ne, Ar and Kr from threshold up to 180 eV. <i>Journal of Chemical Physics</i> , 1980, 73, 3763-3778.	1.2	248
5	Chemical recognition in terahertz time-domain spectroscopy and imaging. <i>Semiconductor Science and Technology</i> , 2005, 20, S246-S253.	1.0	245
6	Photoelectron imaging spectrometry: Principle and inversion method. <i>Review of Scientific Instruments</i> , 1996, 67, 2257-2268.	0.6	189
7	Terahertz time-domain spectroscopy and imaging of artificial RNA. <i>Optics Express</i> , 2005, 13, 5205.	1.7	189
8	Far Infrared Properties of Electro-Optic Crystals Measured by THz Time-Domain Spectroscopy. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1999, 20, 595-604.	0.6	175
9	Electro-optic detection of THz radiation in LiTaO ₃ , LiNbO ₃ and ZnTe. <i>Applied Physics Letters</i> , 1997, 70, 3069-3071.	1.5	164
10	Interactions and Dynamics in Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2008, 112, 4854-4858.	1.2	158
11	Nanostructured gold films as broadband terahertz antireflection coatings. <i>Physical Review B</i> , 2008, 77, .	1.1	144
12	Chemical sensing and imaging with pulsed terahertz radiation. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 1009-1017.	1.9	138
13	Images of photoelectrons formed in intense laser fields. <i>Physical Review Letters</i> , 1993, 70, 3221-3224.	2.9	126
14	Chemical Recognition With Broadband THz Spectroscopy. <i>Proceedings of the IEEE</i> , 2007, 95, 1592-1604.	16.4	123
15	Terahertz near-field imaging of electric and magnetic resonances of a planar metamaterial. <i>Optics Express</i> , 2009, 17, 3826.	1.7	123
16	Detection of THz pulses by phase retardation in lithium tantalate. <i>Physical Review E</i> , 1996, 53, R3052-R3054.	0.8	121
17	Transmission characteristics of dichroic filters measured by THz time-domain spectroscopy. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 66, 593-598.	1.1	113
18	Buffer-gas effects on dark resonances: Theory and experiment. <i>Physical Review A</i> , 2001, 63, .	1.0	113

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19	Lattice modes mediate radiative coupling in metamaterial arrays. <i>Optics Express</i> , 2009, 17, 22108.	1.7	105
20	Photofragment spectroscopy of N_2^+ . <i>Physical Review A</i> , 1983, 28, 766-772.	1.0	101
21	Dynamics of strong-field above-threshold ionization of argon: Comparison between experiment and theory. <i>Physical Review A</i> , 2003, 67, .	1.0	91
22	Photofragment spectroscopy of CH^+ : Laser excitation of shape resonances in the $A^1\Sigma$ state. <i>Physical Review A</i> , 1982, 25, 304-321.	1.0	86
23	Photodetachment of $H\tilde{a}^{\sim}$ in a Strong Infrared Laser Field. <i>Physical Review Letters</i> , 2001, 87, 243001.	2.9	84
24	Double ionization of van der Waals dimers: NeXe and ArXe. <i>Journal of Chemical Physics</i> , 1981, 74, 3844-3851.	1.2	81
25	Channel switching in above-threshold ionization of xenon. <i>Physical Review A</i> , 1998, 57, 3692-3697.	1.0	81
26	Production of Energetic Electrons in the Process of Photodetachment of $F\tilde{a}^{\sim}$. <i>Physical Review Letters</i> , 2003, 90, 183001.	2.9	74
27	The cross section for symmetric charge exchange of He+in He at energies between 0.3 and 8 eV. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1977, 10, 3683-3697.	1.6	70
28	Dielectric properties of oil-water complexes using terahertz transmission spectroscopy. <i>Chemical Physics Letters</i> , 2006, 421, 494-498.	1.2	70
29	Terahertz pulse propagation in the near field and the far field. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2000, 17, 74.	0.8	69
30	$N(4S_0)$, $N(2D_0)$, and $N(2P_0)$ yields in predissociation of excited singlet states of N_2 . <i>Journal of Chemical Physics</i> , 1993, 99, 3553-3561.	1.2	68
31	Observation of high-nRydberg series ($7 < n < 40$) of the H_3 molecule. <i>Physical Review Letters</i> , 1986, 56, 42-45.	2.9	60
32	Product branching in predissociation of the $e^{\sim}u, e^{\sim}u, \text{ and } b^{\sim}u$ states of N_2 . <i>Journal of Chemical Physics</i> , 1989, 90, 4208-4215.	1.2	60
33	Photodissociation of Triatomic Hydrogen. <i>Physical Review Letters</i> , 1988, 61, 298-301.	2.9	59
34	Characterization and application of dichroic filters in the 0.1-3-THz region. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2000, 48, 744-749.	2.9	58
35	Fast Neutral-Beam Photofragment Spectroscopy of $H_2^{\sim}3$. <i>Physical Review Letters</i> , 1984, 53, 1642-1645.	2.9	57
36	Fragment Correlation in the Three-Body Breakup of Triatomic Hydrogen. <i>Physical Review Letters</i> , 1999, 83, 2718-2721.	2.9	56

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37	Electron-impact ionization of Ar ₂ , ArKr, Kr ₂ , KrXe, and Xe ₂ . Physical Review A, 1979, 19, 2154-2160.	1.0	55
38	Experimental Study of Photodetachment in a Strong Laser Field of Circular Polarization. Physical Review Letters, 2005, 95, 263002.	2.9	54
39	Transmission features of frequency-selective components in the far infrared determined by terahertz time-domain spectroscopy. Applied Optics, 1999, 38, 3961.	2.1	53
40	Dissociative decay of n=3 levels in H ₂ . II. Excited by laser from the metastable $\sigma_u^2 3s$ state of H ₂ . Physical Review A, 1986, 34, 3855-3864.	1.0	51
41	Measurement of the ionization potential of triatomic hydrogen. Physical Review A, 1988, 38, 3425-3429.	1.0	50
42	Single and double ionization of nitrogen dioxide by electron impact from threshold up to 180 eV. Journal of Chemical Physics, 1980, 73, 303-308.	1.2	49
43	Photodissociation measurement of rovibrational energies and populations of molecules in fast beams. Journal of Chemical Physics, 1987, 86, 6813-6822.	1.2	49
44	Four-photon dissociation and ionization of H ₂ . Physical Review A, 1987, 36, 5645-5653.	1.0	46
45	Experimental determination of the H ₃ ⁺ bond dissociation energy. Chemical Physics Letters, 1988, 152, 71-74.	1.2	46
46	The mobilities of atomic krypton and xenon ions in the 2P _{1/2} and 2P _{3/2} state in their parent gas. Journal of Physics B: Atomic and Molecular Physics, 1976, 9, 2931-2943.	1.6	45
47	Spectroscopy and multichannel quantum-defect theory analysis of the nP Rydberg series of H ₃ . Physical Review A, 1991, 44, 1817-1827.	1.0	43
48	Observation of predissociated levels of CH ⁺ . Astrophysical Journal, 1980, 235, 52.	1.6	42
49	Formation of Xe ³⁺ ions in xenon at temperatures between 210 and 293 K. Physical Review A, 1976, 14, 680-684.	1.0	41
50	Lifetimes and Rydberg-valence state mixing of the $\sigma_g^2 \Sigma^+ (v=4)$ and $\sigma_u (v=4)$ states of N ₂ . Physical Review A, 1993, 48, 2762-2771.	1.0	40
51	Detailed comparison of theory and experiment of strong-field photodetachment of the negative hydrogen ion. Physical Review A, 2003, 68, .	1.0	40
52	Predissociation quantum yields of singlet nitrogen. Physical Review A, 1994, 50, 2930-2936.	1.0	39
53	Three-photon double-resonance spectroscopy of autoionizing Rydberg states in H ₂ . Physical Review A, 1985, 31, 1206-1208.	1.0	38
54	Photoexcitation and predissociation intensities of the $\sigma_g^2 \Sigma^+ (v=3 \text{ and } 4)$, $\sigma_u (v=3 \text{ and } 4)$, and $\sigma_g^2 \Sigma^+ (v=10, 12, 13, \text{ and } 15)$ states of N ₂ . Journal of Chemical Physics, 2000, 112, 4621-4633.	1.2	36

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55	Photofragment spectroscopy of shape resonances in OH ⁺ . <i>Physical Review A</i> , 1984, 30, 851-857.	1.0	35
56	Experimental and quantum-chemical studies on the three-particle fragmentation of neutral triatomic hydrogen. <i>Physical Review A</i> , 2005, 72, .	1.0	35
57	Simplification of photoelectron spectra of H ₂ in intense laser fields. <i>Physical Review Letters</i> , 1991, 67, 1234-1237.	2.9	33
58	Imaging of charged atomic reaction products: Inversion by a two-dimensional regularization method. <i>Journal of Chemical Physics</i> , 1999, 110, 11187-11196.	1.2	33
59	Laser predissociation spectroscopy of the $\sigma^2 \Sigma_g^+$ state of O ₂ ⁺ . <i>Journal of Chemical Physics</i> , 1980, 73, 2629-2640.	1.2	32
60	Resonant and nonresonant multiphoton ionization of helium. <i>Physical Review A</i> , 1994, 49, 2726-2733.	1.0	32
61	Gouy phase shift of a tightly focused, radially polarized beam. <i>Optica</i> , 2016, 3, 35.	4.8	32
62	Measurement of the lifetime of metastable triatomic hydrogen. <i>Journal of Chemical Physics</i> , 1990, 93, 6303-6309.	1.2	31
63	Double ionization of rare-gas dimers: NeKr + e ⁺ → NeKr ²⁺ . <i>Physical Review A</i> , 1982, 26, 2981-2982.	1.0	30
64	Electron impact ionization of (N ₂) ₂ : Appearance energies of N ₃ ⁺ and N ₄ ⁺ . <i>Journal of Chemical Physics</i> , 1984, 80, 3185-3188.	1.2	30
65	Photoenhanced electron attachment of vinylchloride and trifluoroethylene at 193 nm. <i>Applied Physics Letters</i> , 1985, 47, 576-578.	1.5	30
66	Field emission ion source of molecular cesium ions. <i>Review of Scientific Instruments</i> , 1983, 54, 837-840.	0.6	29
67	Picosecond Dynamics and Microheterogeneity of Water + Dioxane Mixtures. <i>Journal of Physical Chemistry A</i> , 2007, 111, 2043-2046.	1.1	29
68	The mobilities and equilibrium reactions of helium ions in helium at 77K. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1976, 9, 1171-1189.	1.6	28
69	The influence of fine-structure splitting on the mobility of atomic neon ions in neon. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1977, 10, 983-991.	1.6	27
70	Autoionizing Rydberg States in Triplet Molecular Hydrogen. <i>Physical Review Letters</i> , 1985, 55, 1575-1578.	2.9	27
71	Measurement of vibrational frequencies of the H ₃ molecule using two-step photoionization. <i>Journal of Chemical Physics</i> , 1989, 90, 5299-5308.	1.2	27
72	Ion-recoil energy measurement in photoionization of laser-cooled rubidium. <i>Physical Review A</i> , 1997, 56, R4385-R4388.	1.0	27

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73	Observation of the $C(3/2) \rightarrow X(1/2)$ transition in XeF. Journal of Chemical Physics, 1983, 79, 3220-3226.	1.2	26
74	Spectroscopic study of the second $3\hat{1}g$ state of H ₂ : A bound triplet state perturbed by a doubly excited state. Journal of Chemical Physics, 1990, 92, 2219-2228.	1.2	26
75	The mobility of Ar ⁺ ions in argon and the effect of spin-orbit coupling. Journal of Physics B: Atomic and Molecular Physics, 1977, 10, 3849-3851.	1.6	25
76	Investigation of ion-molecule reactions using a drift tube with separated ion source. International Journal of Mass Spectrometry and Ion Physics, 1979, 30, 251-261.	1.3	25
77	Autoionization of H ₂ Induced by a Doubly Excited Triplet State. Physical Review Letters, 1988, 60, 2465-2468.	2.9	25
78	Beam-Profiling and Wavefront-Sensing of THz Pulses at the Focus of a Substrate-Lens. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 476-481.	1.9	25
79	Double-resonance study of predissociation of the $j3\hat{1}''$ state of H ₂ . Physical Review A, 1988, 38, 3447-3455.	1.0	24
80	Power broadening and Doppler effects of coherent dark resonances in Rb. Physical Review A, 2000, 62, .	1.0	24
81	Bound-free spectroscopy of Cs ₂ ⁺ . Physical Review A, 1983, 27, 2493-2502.	1.0	23
82	Observation of electronically excited states of tetraoxygen. Journal of Chemical Physics, 1993, 98, 5444-5449.	1.2	22
83	Laser photofragment spectroscopy of NO ⁺ . I. Predissociation of the $2\hat{a}\epsilon\%3\hat{1}$ state. Journal of Chemical Physics, 1981, 75, 3882-3893.	1.2	21
84	Predissociation of H ₃ near its ionization threshold induced by very weak electric fields. Physical Review A, 1991, 43, 3645-3652.	1.0	21
85	Stark effect in triatomic hydrogen Rydberg states. Physical Review A, 1992, 45, 387-402.	1.0	21
86	Kinematically complete final state investigations of molecular photodissociation: two- and three-body decay of laser-prepared H ₃ s 2 A ₁ '. European Physical Journal D, 2001, 17, 307-318.	0.6	21
87	Molecular ion formation in decaying plasmas produced in pure argon and krypton. Journal of Chemical Physics, 1981, 74, 1728-1735.	1.2	20
88	Field ionization of high-lying states of H ₂ . Physical Review Letters, 1987, 59, 1096-1099.	2.9	20
89	Photoelectron spectroscopy of vibrationally excited H ₂ (E, F $\hat{1}\hat{g}+1$). Physical Review A, 1989, 40, 7031-7038.	1.0	20
90	Autoionizing np Rydberg states of H ₂ . Physical Review A, 1989, 39, 3979-3991.	1.0	20

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91	Ion-recoil momentum spectroscopy in a laser-cooled atomic sample. <i>Physical Review A</i> , 2000, 62, .	1.0	20
92	Entanglement Dynamics of a Strongly Driven Trapped Atom. <i>Physical Review Letters</i> , 2011, 106, 040502.	2.9	20
93	Mobilities and reactions of diatomic rare-gas ions in their parent gases, helium, neon, argon and krypton. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1978, 11, 3939-3950.	1.6	19
94	Observation of low-lying rydberg states of the triatomic hydrogen molecule. <i>Chemical Physics Letters</i> , 1989, 163, 425-431.	1.2	19
95	Surface analysis by photoionization of sputtered species with intense picosecond laser radiation. <i>Applied Surface Science</i> , 1991, 52, 151-157.	3.1	19
96	Maps of Nonadiabatic Coupling in Triatomic Hydrogen. <i>Physical Review Letters</i> , 2004, 92, 073002.	2.9	19
97	Forced rotational autoionization of high-lying states of H ₂ . <i>Physical Review A</i> , 1988, 38, 1666-1669.	1.0	18
98	Electric-field ionization of Rydberg states of H ₃ . <i>Physical Review A</i> , 1993, 47, 1209-1219.	1.0	18
99	The mobilities of Kr ⁺ (2P) and Kr ⁺ (2P) in krypton at 295 K. <i>Chemical Physics Letters</i> , 1975, 36, 97-99.	1.2	17
100	Rotationally adiabatic treatment of \hat{h} -doubling in CH ⁺ . <i>Journal of Chemical Physics</i> , 1982, 76, 2516-2523.	1.2	17
101	Multiphoton ionization of vinylchloride, trifluoroethylene, and benzene at 193 nm. <i>Journal of Chemical Physics</i> , 1987, 87, 902-909.	1.2	17
102	Unexpected product fine-structure distributions in (3+1)-photon ionization of xenon. <i>Physical Review A</i> , 1995, 51, 3726-3734.	1.0	17
103	Two-slit interference in strong-field photodetachment of H ⁻ . <i>Journal of Modern Optics</i> , 2003, 50, 461-470.	0.6	16
104	Plasma sampling - a versatile tool in plasma chemistry. <i>Pure and Applied Chemistry</i> , 1980, 52, 1739-1757.	0.9	15
105	Optical double resonance spectroscopy of molecular ions. <i>Journal of Chemical Physics</i> , 1982, 76, 4720-4724.	1.2	15
106	High-resolution laser spectroscopy of H ₂ in a fast beam. <i>Chemical Physics Letters</i> , 1987, 134, 361-365.	1.2	15
107	Vibrational autoionization in H ₃ and measurements of the symmetric-stretch frequency of the metastable 2pA ² state. <i>Physical Review A</i> , 1989, 39, 3721-3724.	1.0	15
108	Observation of the 1 σ g ⁺ system in Cs ₂ ⁺ . <i>Journal of Chemical Physics</i> , 1983, 78, 6451-6454.	1.0	14

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109	f-electron Rydberg series of triatomic hydrogen. <i>Physical Review A</i> , 1990, 42, 6660-6669.	1.0	14
110	Trapped-atom cooling beyond the Lamb-Dicke limit using electromagnetically induced transparency. <i>Physical Review A</i> , 2008, 77, .	1.0	14
111	A quantitative analysis of ion-molecule reactions occurring within the extraction orifice of a mass-spectrometric sampling probe. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1974, 7, 170-177.	1.6	13
112	Photofragment spectroscopy of O ₂ : Excitation of the Schumann-Runge band system. <i>Journal of Chemical Physics</i> , 1989, 90, 1434-1439.	1.2	13
113	Photofragment spectroscopy of HF ⁺ . <i>Journal of Chemical Physics</i> , 1991, 94, 92-105.	1.2	13
114	Wavelength dependence of double ionization of xenon in a strong laser field. <i>Physical Review A</i> , 2006, 73, .	1.0	13
115	Examination of the spatial and temporal field distributions of single-cycle terahertz pulses at a beam focus. <i>Applied Physics Letters</i> , 2007, 90, 071112.	1.5	13
116	Quantitative analysis of the transient response of the refractive index to conditions of electromagnetically induced transparency. <i>Physical Review A</i> , 2012, 85, .	1.0	13
117	Transverse diffusion of Ar ⁺ and Ar ²⁺ in Ar at 298K. <i>Journal of Physics B: Atomic and Molecular Physics</i> , 1981, 14, 1695-1705.	1.6	12
118	KrF laser excitation of the D(1/2) → X(1/2) transition of XeF. <i>Journal of Chemical Physics</i> , 1984, 80, 1796-1800.	1.2	12
119	Imaging of spatial many-body wave functions via linear momentum measurements. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 453-457.	1.3	12
120	Radio-frequency-assisted electromagnetically induced transparency. <i>Physical Review A</i> , 2015, 92, .	1.0	12
121	ATI of complex systems: Ar and C 60. <i>European Physical Journal D</i> , 2003, 26, 83-90.	0.6	11
122	Dissipative light scattering by a trapped atom approaching electromagnetically-induced-transparency conditions. <i>Physical Review A</i> , 2010, 81, .	1.0	11
123	Stark Field Control of Nonadiabatic Dynamics in Triatomic Hydrogen. <i>Physical Review Letters</i> , 2010, 104, 103002.	2.9	11
124	O ₂ (b ¹ _g + $\hat{\nu}$ X 3 ¹ _g) emission following HO ₂ photodissociation by KrF laser photons. <i>Chemical Physics Letters</i> , 1981, 81, 537-540.	1.2	10
125	Photoionization of N ₂ E ⁺ g ⁺ 3. <i>Physical Review A</i> , 1988, 38, 115-125.	1.0	10
126	Ab initio investigation of the 3 $\hat{1}$ states of NO ⁺ . <i>Journal of Chemical Physics</i> , 1984, 80, 2648-2653.	1.2	9

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127	Rotational channel interactions of vibrationally excited Rydberg states of the triatomic hydrogen molecule. <i>Physical Review A</i> , 1999, 60, 3929-3942.	1.0	9
128	On the conversion of atomic rare gas ions $X^+ (2P_{1/2})$ into rare gas dimer ions. <i>Journal of Chemical Physics</i> , 1978, 68, 5301-5302.	1.2	8
129	Spatial anisotropy of the velocity of electrons emitted from a short-pulse laser focus. <i>Physical Review A</i> , 1994, 49, 1491-1493.	1.0	8
130	Double-Electron Transfer in $H\hat{a}^{\infty}+H+Collisions$. <i>Physical Review Letters</i> , 2007, 99, 173202.	2.9	8
131	Strong-field ionization of H from ultraviolet to near-infrared wavelengths: Photoelectron energy and angular identifications. <i>Physical Review A</i> , 2011, 84, .	1.0	8
132	Determination of the water content in petroleum products using terahertz transmission spectroscopy. , 2006, 6120, 145.		7
133	Momentum vector correlation maps for three-particle fragmentation of neutral triatomic hydrogen near its ionization threshold. <i>Physical Review A</i> , 2010, 82, .	1.0	7
134	Laser photofragment spectroscopy of N_2 : Evidence for predissociation of N_2^+ . <i>Journal of Chemical Physics</i> , 1982, 77, 5396-5405.	1.2	6
135	The $n=2,3$ triplet Rydberg states of the HD molecule observed by fast neutral beam photofragment spectroscopy. <i>Journal of Chemical Physics</i> , 1987, 86, 3050-3051.	1.2	6
136	Axicon amplification of a synchronously pumped subpicosecond dye laser. <i>Journal of the Optical Society of America B: Optical Physics</i> , 1993, 10, 1035.	0.9	5
137	Phase control and diagnostic of quantum mechanical superposition states. <i>Physical Review A</i> , 2013, 87, .	1.0	5
138	Tomography of photoelectron distributions produced through strong-field photodetachment of Ag . <i>Physical Review A</i> , 2020, 102, .	1.0	5
139	A second-order drift tube effect. <i>Journal Physics D: Applied Physics</i> , 1978, 11, 1049-1055.	1.3	4
140	Nonadiabatic coupling and vector correlation in dissociation of triatomic hydrogen. <i>Faraday Discussions</i> , 2004, 127, 439-443.	1.6	4
141	On the complex momentum spectra of photoelectrons formed from H_2 in a strong laser field. <i>Laser Physics</i> , 2008, 18, 579-584.	0.6	4
142	Entanglement between internal and external degrees of freedom of a driven trapped atom. <i>Physica Scripta</i> , 2010, T140, 014034.	1.2	4
143	Modeling and control of entanglement dynamics in laser cooling of trapped atoms. <i>Physical Review A</i> , 2012, 85, .	1.0	4
144	Resonantly enhanced four-photon ionization yield of $Xe^+ (2P_{1/2})$ and $Xe^+ (2P_{3/2})$ in a strong laser field. <i>Chemical Physics</i> , 1994, 179, 115-123.	0.9	3

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145	Photopreparation of molecular hydrogen ions in intense laser fields. Laser and Particle Beams, 2000, 18, 443-448.	0.4	3
146	Strong-field photoionization of argon: A comparison between experiment and the SAE approximation. Journal of Modern Optics, 2003, 50, 451-459.	0.6	3
147	Terahertz-Time-Domain-Spektroskopie mit einem leistungsoptimierten elektrooptischen Detektionsverfahren (Low-Power Terahertz Time-Domain Spectroscopy with Optimized Electro-optical) Tj ETQq1 1 0.7843143gBT /Over	0.7	3
148	Biosensing with T-ray spectroscopy. , 2007, , .		3
149	Optical switching of a dc discharge using an excimer laser. Journal of Applied Physics, 1988, 63, 4849-4853.	1.1	2
150	T-ray spectroscopy of biomolecules: from chemical recognition toward biochip analysis – horizons and hurdles. , 2005, , .		2
151	Terahertz Study of Chiral and Racemic Crystals. , 2006, , .		2
152	Subpicosecond time-resolved terahertz time-domain spectroscopy of transient carrier dynamics in semiconductors. , 1999, , .		1
153	Two-slit interference in strong-field photodetachment of Hâ ⁺ . Journal of Modern Optics, 2003, 50, 461-470.	0.6	1
154	Nonponderomotive effects in multiphoton ionization of molecular hydrogen. Physical Review A, 2011, 83, .	1.0	1
155	Predissociation of Excited States of H3. NATO ASI Series Series B: Physics, 1993, , 145-153.	0.2	1
156	Modeling of the behavior of water and soot contaminated oils in the terahertz range. , 2006, , .		0
157	Microarray Biochips - Thousands of Reactions on a Small Chip (MOBA). , 2006, , 405-476.		0
158	Metal-Insulator Phase Transition in VO2: A Look from the Far Infrared Side. Materials Research Society Symposia Proceedings, 2006, 935, 1.	0.1	0
159	Profound Isotope Effect in Dissociation of Triatomic Hydrogen. Journal of Physical Chemistry A, 2013, 117, 9794-9799.	1.1	0
160	Tracing the Gouy phase shift of focused, radially polarized THz pulses. , 2016, , .		0
161	Terahertz Near-Field Imaging of Electric and Magnetic Resonances in Plasmonic High Frequency Devices. , 2010, , .		0
162	METASTABILITY AND RYDBERG STATES OF TRIATOMIC HYDROGEN. European Physical Journal Special Topics, 1991, 01, C7-513-C7-516.	0.2	0

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163	Four-photon ionization dynamics of xenon. European Physical Journal Special Topics, 1994, 04, C4-647-C4-650.	0.2	0