

Bretislav Friedrich

List of Publications by Year in descending order

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155
papers

6,725
citations

71061

41
h-index

62565

80
g-index

161
all docs

161
docs citations

161
times ranked

2318
citing authors

#	ARTICLE	IF	CITATIONS
1	Alignment and Trapping of Molecules in Intense Laser Fields. <i>Physical Review Letters</i> , 1995, 74, 4623-4626.	2.9	752
2	Magnetic trapping of calcium monohydride molecules at millikelvin temperatures. <i>Nature</i> , 1998, 395, 148-150.	13.7	433
3	Editorial: Quo vadis, cold molecules?. <i>European Physical Journal D</i> , 2004, 31, 149-164.	0.6	394
4	Time evolution of pendular states created by the interaction of molecular polarizability with a pulsed nonresonant laser field. <i>Journal of Chemical Physics</i> , 1999, 110, 3870-3875.	1.2	334
5	Spatial orientation of molecules in strong electric fields and evidence for pendular states. <i>Nature</i> , 1991, 353, 412-414.	13.7	286
6	Buffer-gas loading of atoms and molecules into a magnetic trap. <i>Physical Review A</i> , 1995, 52, R2515-R2518.	1.0	232
7	Enhanced orientation of polar molecules by combined electrostatic and nonresonant induced dipole forces. <i>Journal of Chemical Physics</i> , 1999, 111, 6157-6160.	1.2	211
8	Polarization of Molecules Induced by Intense Nonresonant Laser Fields. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15686-15693.	2.9	189
9	Manipulating Molecules via Combined Static and Laser Fields. <i>Journal of Physical Chemistry A</i> , 1999, 103, 10280-10288.	1.1	182
10	Pendular states and spectra of oriented linear molecules. <i>Physical Review Letters</i> , 1992, 68, 1299-1302.	2.9	172
11	On the possibility of orienting rotationally cooled polar molecules in an electric field. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1991, 18, 153-161.	1.0	159
12	Time-Dependent Alignment and Orientation of Molecules in Combined Electrostatic and Pulsed Nonresonant Laser Fields. <i>Physical Review Letters</i> , 2001, 86, 775-778.	2.9	155
13	Alignment and orientation of rotationally cool molecules. <i>The Journal of Physical Chemistry</i> , 1991, 95, 8118-8129.	2.9	154
14	Stern and Gerlach: How a Bad Cigar Helped Reorient Atomic Physics. <i>Physics Today</i> , 2003, 56, 53-59.	0.3	139
15	Buffer-gas loaded magnetic traps for atoms and molecules: A primer. <i>European Physical Journal D</i> , 1999, 7, 289.	0.6	113
16	Buffer-Gas Loading and Magnetic Trapping of Atomic Europium. <i>Physical Review Letters</i> , 1997, 78, 3665-3668.	2.9	99
17	Facile alignment of molecular rotation in supersonic beams. <i>Journal of Chemical Physics</i> , 1990, 93, 3224-3236.	1.2	74
18	Buffer-gas cooling of NH via the beam loaded buffer-gas method. <i>European Physical Journal D</i> , 2004, 31, 307-311.	0.6	63

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19	Prospects for quantum computing with an array of ultracold polar paramagnetic molecules. Journal of Chemical Physics, 2016, 144, 094301.	1.2	62
20	Magnetic trapping of atomic chromium. Physical Review A, 1998, 57, R3173-R3175.	1.0	60
21	Implementation of quantum logic gates using polar molecules in pendular states. Journal of Chemical Physics, 2013, 138, 024104.	1.2	60
22	Molecules are cool. Nature, 1999, 401, 749-751.	13.7	58
23	Spectroscopy of laser-ablated buffer-gas-cooled PbO at 4 K and the prospects for measuring the electric dipole moment of the electron. Physical Review A, 2001, 63, .	1.0	56
24	Buffer-gas cooling of atomic and molecular beams. Physical Review A, 2002, 66, .	1.0	56
25	Why are Cold Molecules so Hot?. ChemPhysChem, 2009, 10, 604-623.	1.0	55
26	Entanglement of polar symmetric top molecules as candidate qubits. Journal of Chemical Physics, 2011, 135, 154102.	1.2	55
27	A crossed beam study of the charge transfer reaction of Ar ⁺ with N ₂ at low and intermediate energies. Journal of Chemical Physics, 1984, 80, 2537-2542.	1.2	54
28	Processing of ion-molecule beam scattering data: Framework of scattering diagrams and derived quantities. Collection of Czechoslovak Chemical Communications, 1984, 49, 570-585.	1.0	54
29	Entanglement of polar molecules in pendular states. Journal of Chemical Physics, 2011, 134, 124107.	1.2	53
30	Making the Best of Mixed-Field Orientation of Polar Molecules: A Recipe for Achieving Adiabatic Dynamics in an Electrostatic Field Combined with Laser Pulses. Physical Review Letters, 2012, 108, 193001.	2.9	53
31	Pendular alignment of paramagnetic molecules in uniform magnetic fields. Physical Review Letters, 1994, 72, 1806-1809.	2.9	50
32	Spectroscopy of buffer-gas cooled vanadium monoxide in a magnetic trapping field. Journal of Chemical Physics, 1998, 109, 2656-2661.	1.2	49
33	Directional states of symmetric-top molecules produced by combined static and radiative electric fields. Journal of Chemical Physics, 2008, 128, 224313.	1.2	49
34	Charge transfer and structured vibrational distributions in H ⁺ +CH ₄ low energy collisions. Journal of Chemical Physics, 1988, 88, 6814-6830.	1.2	47
35	Optical spectra of spatially oriented molecules: ICl in a strong electric field. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1539.	1.7	47
36	Stark-selected beam of ground-state OCS molecules characterized by revivals of impulsive alignment. Physical Chemistry Chemical Physics, 2011, 13, 18971.	1.3	46

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37	Slowing of supersonically cooled atoms and molecules by time-varying nonresonant induced dipole forces. <i>Physical Review A</i> , 2000, 61, .	1.0	45
38	Statistical mechanics of pendular molecules. <i>International Reviews in Physical Chemistry</i> , 1996, 15, 325-344.	0.9	44
39	Steric proficiency of polar $2\hat{1}\hat{x}$ molecules in congruent electric and magnetic fields. <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 419-428.	1.3	44
40	Development of a hard X-ray split-and-delay line and performance simulations for two-color pump-probe experiments at the European XFEL. <i>Review of Scientific Instruments</i> , 2018, 89, 063121.	0.6	44
41	A beam scattering study of the collision-induced dissociation of polyatomic ions CH_4^+ and C_3H_8^+ at eV collision energies. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1984, 58, 181-199.	1.9	43
42	Zeeman spectroscopy of CaH molecules in a magnetic trap. <i>Journal of Chemical Physics</i> , 1999, 110, 2376-2383.	1.2	41
43	Generation and orientation of organoxenon molecule $\text{H}\hat{\text{a}}\hat{\text{e}}\hat{\text{C}}\text{C}\text{H}$ in the gas phase. <i>Journal of Chemical Physics</i> , 2008, 128, 104313.	1.2	41
44	A pocket model of seeded supersonic beams. <i>The Journal of Physical Chemistry</i> , 1993, 97, 2167-2171.	2.9	40
45	Photodissociation of oriented HXeI molecules generated from $\text{HI}\hat{\text{a}}\hat{\text{e}}\hat{\text{X}}\text{en}$ clusters. <i>Journal of Chemical Physics</i> , 2003, 119, 224-231.	1.2	40
46	Vibrationally resolved inelastic and charge transfer scattering of H^+ by H_2O . <i>Journal of Chemical Physics</i> , 1987, 87, 5256-5265.	1.2	39
47	Separation of a benzene and nitric oxide mixture by a molecule prism. <i>Journal of Chemical Physics</i> , 2003, 119, 8905-8909.	1.2	37
48	State-resolved scattering of molecules in pendular states: $\text{ICl}+\text{Ar}$. <i>Physical Review Letters</i> , 1992, 69, 2487-2490.	2.9	35
49	Towards magnetic trapping of molecules. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998, 94, 1783-1791.	1.7	34
50	A Linear AC Trap for Polar Molecules in Their Ground State. <i>Journal of Physical Chemistry A</i> , 2007, 111, 7411-7419.	1.1	33
51	Dynamics of low-energy charge-transfer processes: $\text{Ar}^{2+} + \text{He} \hat{\text{a}}\hat{\text{t}}^+ \text{Ar}^+ + \text{He}^+$ AT eV collision energies. <i>Chemical Physics Letters</i> , 1984, 107, 375-380.	1.2	32
52	Alignment enhanced spectra of molecules in intense non-resonant laser fields. <i>Chemical Physics Letters</i> , 1996, 262, 41-46.	1.2	32
53	Dynamics of charge transfer $\text{Ar}^{++}(3\text{P})+\text{He}(1\text{S})\hat{\text{a}}\hat{\text{t}}^+\text{Ar}^+(2\text{P})+\text{He}^+(2\text{S})$ at low collision energies: Comparison of experimental results with quasiclassical calculations of the differential cross sections. <i>Journal of Chemical Physics</i> , 1986, 84, 807-812.	1.2	30
54	On the possibility of aligning paramagnetic molecules or ions in a magnetic field. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1992, 24, 25-31.	1.0	29

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55	Spectroscopy of pendular molecules in strong parallel electric and magnetic fields. Canadian Journal of Physics, 1994, 72, 897-908.	0.4	27
56	A crossed-beam study of low energy Ar ⁺ + H ₂ O collisions: Charge transfer and chemical reaction. Chemical Physics, 1981, 60, 369-378.	0.9	26
57	Hybridization of rotor states in parallel electric and magnetic fields. Chemical Physics Letters, 1994, 221, 333-340.	1.2	26
58	Effect of pendular orientation on the reactivity of H + DCl: a quasiclassical trajectory study. Chemical Physics Letters, 1998, 289, 132-140.	1.2	26
59	An analytic model of rotationally inelastic collisions of polar molecules in electric fields. Journal of Chemical Physics, 2008, 129, 024301.	1.2	26
60	Polarizability interaction in molecules and double-well tunneling. Zeitschrift für Physik D-Atoms Molecules and Clusters, 1996, 36, 221-228.	1.0	25
61	Collisional Alignment of Molecular Rotation: Simple Models and Trajectory Analysis. The Journal of Physical Chemistry, 1995, 99, 7407-7415.	2.9	24
62	Fine structure, alignment, and orientation of ³² S ¹⁶ O and ¹⁶ O ¹⁸ O molecules in congruent electric and magnetic fields. Journal of Chemical Physics, 2000, 112, 3609-3619.	1.2	23
63	A beam scattering study of the dynamics of CH ₄ (CH ₃)CH ₅ reaction in the eV collision energy range: Three competing mechanisms of CH ₅ formation. Journal of Chemical Physics, 1990, 93, 4916-4921.	1.2	22
64	The pseudo-first-order Stark effect and the orientation of HXeI molecules. Journal of Modern Optics, 2003, 50, 2677-2689.	0.6	22
65	Otto Stern (1888–1969): The founding father of experimental atomic physics. Annalen Der Physik, 2011, 523, 1045-1070.	0.9	22
66	Quantum Computation using Arrays of Polar Molecules in Pendular States. ChemPhysChem, 2016, 17, 3714-3722.	1.0	22
67	Analytic wave model of Stark deceleration dynamics. Physical Review A, 2006, 73, .	1.0	20
68	Recurring Molecular Alignment Induced by Pulsed Nonresonant Laser Fields. Collection of Czechoslovak Chemical Communications, 2001, 66, 991-1004.	1.0	20
69	A crossed molecular beam study of the reaction dynamics of the charge transfer reaction of N ₂ ⁺ (X ² Σ ⁺ , j _{1/2} = 0) with N ₂ (X ¹ Σ ^g , j _{1/2} = 0) at low and intermediate energies. International Journal of Mass Spectrometry and Ion Processes, 1984, 59, 203-218.	1.9	18
70	A comparative study of rotational energy transfer in H ⁺ collisions with HF and CO ₂ molecules. Journal of Physics B: Atomic and Molecular Physics, 1987, 20, 3725-3735.	1.6	18
71	A quasi-analytic model of a linear Stark accelerator/decelerator for polar molecules. European Physical Journal D, 2004, 31, 313-336.	0.6	18
72	Probing Weakly Bound Molecules with Nonresonant Light. Physical Review Letters, 2009, 103, 053003.	2.9	17

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73	Cool pulsed molecular microbeam. Review of Scientific Instruments, 2004, 75, 146-150.	0.6	16
74	One Hundred Years of the Fritz Haber Institute. Angewandte Chemie - International Edition, 2011, 50, 10022-10049.	7.2	16
75	A Fragile Union Between Li and He Atoms. Physics Magazine, 0, 6, .	0.1	16
76	â€¦ hasn't it? A commentary on Eric Scerri's Paper "Has Quantum Mechanics Explained the Periodic Table?". Foundations of Chemistry, 2004, 6, 117-132.	0.4	15
77	Collisions of paramagnetic molecules in magnetic fields: An analytic model based on Fraunhofer diffraction of matter waves. Physical Review A, 2009, 79, .	1.0	15
78	One Hundred Years at the Intersection of Chemistry and Physics. , 2011, , .		15
79	A crossed-beam scattering study of CH ₄ ⁺ and CH ₃ ⁺ formation in charge transfer collisions of Kr ⁺ with CH ₄ at about 1 eV. Journal of Chemical Physics, 1995, 102, 7017-7023.	1.2	14
80	Rotational and rotationless states of weakly bound molecules. Physical Review A, 2009, 79, .	1.0	14
81	Supersymmetry identifies molecular Stark states whose eigenproperties can be obtained analytically. New Journal of Physics, 2011, 13, 063036.	1.2	14
82	Topology of surfaces for molecular Stark energy, alignment, and orientation generated by combined permanent and induced electric dipole interactions. Journal of Chemical Physics, 2014, 140, 064317.	1.2	14
83	Dynamics of H ⁺ Kr and H ⁺ Xe elastic and charge-transfer collisions: State-selected differential cross sections at low collision energies. Physical Review A, 1987, 36, 1063-1072.	1.0	13
84	Vibronic energy distribution of H ₂ O ⁺ produced in charge transfer scattering of D ⁺ by H ₂ O. Journal of Chemical Physics, 1987, 87, 1447-1448.	1.2	13
85	Determination of the electric dipole moment of IC ₁ (B 3 $\bar{0}$) from pendular spectra. Chemical Physics Letters, 1994, 224, 238-242.	1.2	12
86	Supersymmetric factorization yields exact solutions to the molecular Stark-effect problem for stretched states. Physical Review A, 2011, 83, .	1.0	12
87	Supersymmetry and eigensurface topology of the planar quantum pendulum. Frontiers in Physics, 2014, 2, .	1.0	12
88	The effect of a nonresonant radiative field on low-energy rotationally inelastic collisions. International Journal of Mass Spectrometry, 2009, 280, 19-25.	0.7	11
89	Communications: When diffraction rules the stereodynamics of rotationally inelastic collisions. Journal of Chemical Physics, 2010, 132, 161102.	1.2	11
90	Fine-Tuning Molecular Energy Levels by Nonresonant Laser Pulses. Journal of Physical Chemistry A, 2010, 114, 9848-9854.	1.1	11

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91	An analytic model of the stereodynamics of rotationally inelastic molecular collisions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1038-1041.	1.3	11
92	Much Polyphony but Little Harmony: Otto Sackur's Groping for a Quantum Theory of Gases. <i>Physics in Perspective</i> , 2013, 15, 295-319.	0.2	11
93	A crossed beam study of the single-charge transfer process $\text{Hg}^{2+}(1S) + \text{Kr}(1S) \rightarrow \text{Hg}^+(2S) + \text{Kr}^+(2P_{3/2}, 2P_{1/2})$ at eV collision energies. <i>Chemical Physics Letters</i> , 1985, 120, 243-246.	1.2	10
94	Electric dipole moments of pendular molecules. <i>International Reviews in Physical Chemistry</i> , 1995, 14, 113-126.	0.9	10
95	Probing Weakly-Bound Species with Nonresonant Light: Dissociation of He_2 Induced by Rotational Hybridization. <i>Collection of Czechoslovak Chemical Communications</i> , 1998, 63, 1089-1093.	1.0	10
96	Interaction between polar molecules subject to a far-off-resonant optical field: entangled dipoles up- or down-holding each other. <i>Molecular Physics</i> , 2012, 110, 1873-1881.	0.8	9
97	Directional properties of polar paramagnetic molecules subject to congruent electric, magnetic and optical fields. <i>New Journal of Physics</i> , 2015, 17, 045017.	1.2	9
98	Conditional quasi-exact solvability of the quantum planar pendulum and of its anti-isospectral hyperbolic counterpart. <i>European Physical Journal D</i> , 2017, 71, 1.	0.6	9
99	Dynamics of polar polarizable rotors acted upon by unipolar electromagnetic pulses: From the sudden to the adiabatic regime. <i>Journal of Chemical Physics</i> , 2018, 149, 174109.	1.2	9
100	Symmetric tops in combined electric fields: Conditional quasisolvability via the quantum Hamilton-Jacobi theory. <i>Physical Review A</i> , 2018, 97, .	1.0	9
101	Differential cross sections for the competing charge-transfer reactions $\text{Kr}^{2+} + \text{P}(^3P_{3/2}) \rightarrow \text{Kr}^+ + \text{P}(^1S_0)$ and $\text{Kr}^{2+} + \text{P}(^3P_{3/2}) \rightarrow \text{Kr}^+ + \text{P}(^3S_1)$. <i>Canadian Journal of Physics</i> , 1987, 65, 1077-1081.	0.4	8
102	Crossed-beam investigation of the single-electron charge transfer process $\text{Kr}^{2+} + \text{He} \rightarrow \text{Kr}^+ + \text{He}^+$ at sub-eV collision energies. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1987, 80, 177-185.	1.9	8
103	Simulation of the hyperfine-resolved Zeeman spectrum of Eu atoms in a magnetic trap. <i>Physical Review A</i> , 2000, 61, .	1.0	8
104	Net polarization of a molecular beam by strong electrostatic or radiative fields. <i>European Physical Journal D</i> , 2006, 38, 209-214.	0.6	8
105	Supersymmetry and eigensurface topology of the spherical quantum pendulum. <i>Physical Review A</i> , 2015, 91, .	1.0	8
106	How Did the Tree of Knowledge Get Its Blossom? The Rise of Physical and Theoretical Chemistry, with an Eye on Berlin and Leipzig. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5378-5392.	7.2	8
107	Facile production of higher hydrocarbons from ethane in a catalytic supersonic nozzle. <i>Chemical Physics Letters</i> , 1997, 271, 73-78.	1.2	7
108	Model Analysis of Rotationally Inelastic $\text{Ar} + \text{H}_2\text{O}$ Scattering in an Electric Field. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15055-15063.	1.1	7

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109	One Hundred Years of the Fritz Haber Institute. <i>Angewandte Chemie</i> , 2011, 123, 10198-10225.	1.6	7
110	Microsolvation of phthalocyanine molecules in superfluid helium nanodroplets as revealed by the optical line shape at electronic origin. <i>Journal of Chemical Physics</i> , 2018, 148, 144301.	1.2	7
111	The pseudo-first-order Stark effect and the orientation of HXeI molecules. <i>Journal of Modern Optics</i> , 2003, 50, 2677-2689.	0.6	7
112	Observation of fine-structure transitions in rare gas charge transfer at surprisingly low energies using a crossed-molecular beam technique. <i>Chemical Physics Letters</i> , 1987, 140, 385-388.	1.2	6
113	Scaling Mount Impossible: A Festschrift for Dudley Herschbach. <i>Molecular Physics</i> , 2012, 110, 1537-1537.	0.8	6
114	Effect of rotational-state-dependent molecular alignment on the optical dipole force. <i>Physical Review A</i> , 2016, 94, .	1.0	6
115	Thermodynamic Functions of Pendular Molecules. <i>Collection of Czechoslovak Chemical Communications</i> , 1993, 58, 2458-2473.	1.0	6
116	H ⁺⁺ Xe low-energy collisions: Opposite-phase oscillations of the elastic and charge transfer differential cross sections. <i>Zeitschrift für Physik D-Atoms Molecules and Clusters</i> , 1987, 6, 49-53.	1.0	5
117	Molecules riding waves. <i>Nature Physics</i> , 2006, 2, 437-438.	6.5	5
118	Pair-eigenstates and mutual alignment of coupled molecular rotors in a magnetic field. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13467-13477.	1.3	5
119	Clara Haber, nee Immerwahr (1870-1915): Life, Work and Legacy. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2016, 642, 437-448.	0.6	5
120	Physics and Chemistry with Cold Molecules. <i>ChemPhysChem</i> , 2016, 17, 3581-3582.	1.0	5
121	Quantum dynamics of a planar rotor driven by suddenly switched combined aligning and orienting interactions. <i>New Journal of Physics</i> , 2021, 23, 063040.	1.2	5
122	Microsolvation of porphine molecules in superfluid helium nanodroplets as revealed by optical line shape at the electronic origin. <i>Journal of Chemical Physics</i> , 2018, 149, 244306.	1.2	4
123	Heterogeneous Clusters of Phthalocyanine and Water Prepared and Probed in Superfluid Helium Nanodroplets. <i>Journal of Physical Chemistry A</i> , 2019, 123, 10057-10064.	1.1	4
124	trans-Dichlorotetrakis(hydrazidothiophosphorsäurediphenylester)nickel(II). <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1982, 38, 753-758.	0.4	3
125	Spatial Taming and Trapping of Molecules. <i>Journal of the Chinese Chemical Society</i> , 1995, 42, 111-117.	0.8	3
126	Zdenek Herman Festschrift. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15317-15326.	2.9	3

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127	Trapping cold molecules. , 2002, 4634, 46.		3
128	Manipulating Molecules via Combined Electrostatic and Pulsed Nonresonant Laser Fields. ACS Symposium Series, 2002, , 286-303.	0.5	3
129	Maxwell's demon opens new doors. Nature Photonics, 2008, 2, 463-464.	15.6	3
130	Multiple scattering of matter waves: An analytic model of the refractive index for atomic and molecular gases. Physical Review A, 2010, 82, .	1.0	3
131	A Toast to Jan Peter Toennies. Journal of Physical Chemistry A, 2011, 115, 6739-6741.	1.1	3
132	Otto Stern's Molecular Beam Method and Its Impact on Quantum Physics. , 2021, , 37-88.		3
133	Comments on the physical meaning of the minimum energy path. Collection of Czechoslovak Chemical Communications, 1986, 51, 1171-1177.	1.0	3
134	Spin-momentum entanglement in a Bose-Einstein condensate. Physical Chemistry Chemical Physics, 2020, 22, 25669-25674.	1.3	2
135	One hundred years of Alfred Landau's g -factor. Natural Sciences, 2021, 1, e20210068.	1.0	2
136	UNESCO issues a powerful endorsement of Open Science. Natural Sciences, 2022, 2, .	1.0	2
137	Electro-optical trap for polar molecules. Physical Review A, 2022, 105, .	1.0	2
138	Compact collection optics with a spatial filter for molecular beam spectroscopy. European Physical Journal D, 1995, 45, 41-45.	0.4	1
139	BECs from the fridge. Nature Physics, 2009, 5, 712-714.	6.5	1
140	A molecular merry-go-round. Physics Today, 2011, 64, 66-67.	0.3	1
141	Light Gives Molecules the Chills. ChemPhysChem, 2011, 12, 259-261.	1.0	1
142	Fritz Haber und der "Krieg der Chemiker". Physik in Unserer Zeit, 2015, 46, 118-125.	0.0	1
143	An International Symposium (Wilhelm and Else Heraeus Seminar # 702) Marked the Centennial of Otto Stern's First Molecular Beam Experiment and the Thriving of Atomic Physics; A European Physical Society Historic Site Was Inaugurated. Frontiers in Physics, 2019, 7, .	1.0	1
144	A paramount problem solved at last: Paramagnetic catalysis of ortho-para hydrogen conversion. Natural Sciences, 2021, 1, e10004.	1.0	1

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145	Quantum dynamics of a polar rotor acted upon by an electric rectangular pulse of variable duration. <i>Molecular Physics</i> , 2021, 119, .	0.8	1
146	Dynamics of translational and rotational thermalization of AIF molecules via collisions with cryogenic helium. <i>Physical Review A</i> , 2022, 105, .	1.0	1
147	MANIPULATING COLD MOLECULES WITH NONRESONANT FIELDS. <i>Advanced Series in Physical Chemistry</i> , 2004, , 579-631.	1.5	0
148	Wie kam der Baum des Wissens zur Blte? Der Aufstieg der physikalischen und theoretischen Chemie, mit besonderem Augenmerk auf Berlin und Leipzig. <i>Angewandte Chemie</i> , 2016, 128, 5466-5481.	1.6	0
149	Fritz Stern (1926–2016). <i>Angewandte Chemie</i> , 2016, 128, 9620-9621.	1.6	0
150	Far Apart and Close Together: Fritz Haber and Chaim Weizmann. <i>Israel Journal of Chemistry</i> , 2020, 60, 1061-1076.	1.0	0
151	Jan Peter Toennies: an ebullient serendipitous adventurer. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 7525-7540.	1.3	0
152	Obituary for Rudolf Zahradnk (1928–2020): “To Do What’s Right”. <i>Theoretical Chemistry Accounts</i> , 2021, 140, 1.	0.5	0
153	Progresses of a Hard X-Ray Split and Delay Line Unit for the MID Station at the European XFEL. <i>Springer Proceedings in Physics</i> , 2020, , 131-137.	0.1	0
154	<i>Natural Sciences</i> is debuting. <i>Natural Sciences</i> , 2021, 1, .	1.0	0
155	Commissioning of the Hard X-ray Split and Delay Line Unit for the MID Station at European XFEL. , 2022, , .		0