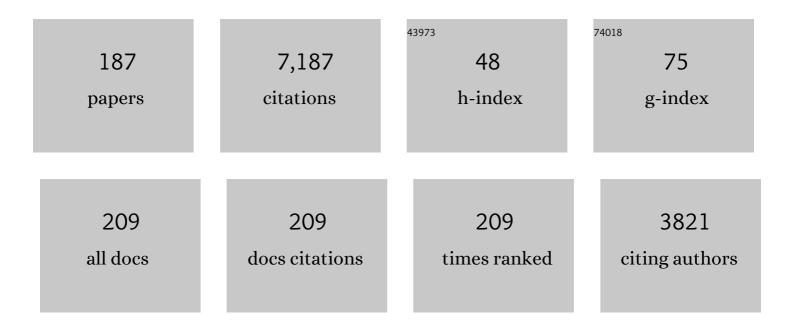
David Cappelletti

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Generalized correlations in terms of polarizability for van der Waals interaction potential parameter calculations. Journal of Chemical Physics, 1991, 95, 1852-1861.	1.2	331
2	Beyond the Lennard-Jones model: a simple and accurate potential function probed by high resolution scattering data useful for molecular dynamics simulations. Physical Chemistry Chemical Physics, 2008, 10, 5489.	1.3	274
3	Atom–bond pairwise additive representation for intermolecular potential energy surfaces. Chemical Physics Letters, 2004, 394, 37-44.	1.2	211
4	Molecular Beam Scattering of Aligned Oxygen Molecules. The Nature of the Bond in the O2â^'O2 Dimer. Journal of the American Chemical Society, 1999, 121, 10794-10802.	6.6	166
5	Velocity dependence of collisional alignment of oxygen molecules in gaseous expansions. Nature, 1994, 371, 399-402.	13.7	149
6	Range, strength and anisotropy of intermolecular forces in atom–molecule systems: an atom–bond pairwise additivity approach. Chemical Physics Letters, 2001, 350, 286-296.	1.2	139
7	Spatial and seasonal variability of carbonaceous aerosol across Italy. Atmospheric Environment, 2014, 99, 587-598.	1.9	137
8	Experimental benchmarks and phenomenology of interatomic forces: open-shell and electronic anisotropy effects. International Reviews in Physical Chemistry, 2006, 25, 165-199.	0.9	125
9	Orienting and aligning molecules for stereochemistry and photodynamics. Physical Chemistry Chemical Physics, 2005, 7, 291-300.	1.3	115
10	Generalization to ion—neutral systems of the polarizability correlations for interaction potential parameters. Chemical Physics Letters, 1991, 183, 297-303.	1.2	110
11	Revealing Charge-Transfer Effects in Gas-Phase Water Chemistry. Accounts of Chemical Research, 2012, 45, 1571-1580.	7.6	107
12	Molecular beam studies of weak interactions of open-shell atoms: the ground and lowest excited states of rare-gas chlorides. The Journal of Physical Chemistry, 1993, 97, 2063-2071.	2.9	106
13	Quantum Interference Scattering of Aligned Molecules: Bonding inO4and Role of Spin Coupling. Physical Review Letters, 1999, 82, 69-72.	2.9	106
14	Impact of black carbon aerosol over Italian basin valleys: high-resolution measurements along vertical profiles, radiative forcing and heating rate. Atmospheric Chemistry and Physics, 2014, 14, 9641-9664.	1.9	103
15	Glory-Scattering Measurement of Water-Noble-Gas Interactions: The Birth of the Hydrogen Bond. Angewandte Chemie - International Edition, 2005, 44, 2356-2360.	7.2	102
16	On the possibility of using model potentials for collision integral calculations of interest for planetary atmospheres. Chemical Physics, 2007, 338, 62-68.	0.9	101
17	Heavy metals bioaccumulation in selected tissues of red swamp crayfish: An easy tool for monitoring environmental contamination levels. Science of the Total Environment, 2016, 559, 339-346.	3.9	98
18	Magnetic Analysis of Supersonic Beams of Atomic Oxygen, Nitrogen, and Chlorine Generated from a Radioâ€Frequency Discharge. Israel Journal of Chemistry, 1997, 37, 329-342.	1.0	96

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19	Range and strength of interatomic forces: dispersion and induction contributions to the bonds of dications and of ionic molecules. Chemical Physics, 1996, 209, 299-311.	0.9	89
20	Scattering of aligned molecules. The potential energy surfaces for the Kr-O2 and Xe-O2 systems. Journal of Chemical Physics, 1998, 109, 3898-3910.	1.2	87
21	Orientation of Benzene in Supersonic Expansions, Probed by IR-Laser Absorption and by Molecular Beam Scattering. Physical Review Letters, 2001, 86, 5035-5038.	2.9	87
22	Heavy metal bioaccumulation in honey bee matrix, an indicator to assess the contamination level in terrestrial environments. Environmental Pollution, 2020, 256, 113388.	3.7	87
23	The N2–N2 system: An experimental potential energy surface and calculated rotovibrational levels of the molecular nitrogen dimer. Journal of Chemical Physics, 2002, 117, 615-627.	1.2	82
24	Scattering of magnetically analyzed F (2P) atoms and their interactions with He, Ne, H2 and CH4. Chemical Physics, 1990, 145, 293-305.	0.9	81
25	Molecular Beam Scattering Experiments on Benzeneâ^'Rare Gas Systems:Â Probing the Potential Energy Surfaces for the C6H6â^'He, â^'Ne, and â^'Ar Dimersâ€. Journal of Physical Chemistry A, 2002, 106, 10764-10772.	1.1	81
26	Charge-Transfer Energy in the Waterâ^'Hydrogen Molecular Aggregate Revealed by Molecular-Beam Scattering Experiments, Charge Displacement Analysis, and ab Initio Calculations. Journal of the American Chemical Society, 2010, 132, 13046-13058.	6.6	80
27	A bond–bond description of the intermolecular interaction energy: the case of weakly bound N2–H2 and N2–N2 complexes. Physical Chemistry Chemical Physics, 2008, 10, 4281.	1.3	78
28	A quantum mechanical view of molecular alignment and cooling in seeded supersonic expansions. Journal of Chemical Physics, 1999, 111, 2620-2632.	1.2	75
29	Deformities of chironomid larvae and heavy metal pollution: From laboratory to field studies. Chemosphere, 2014, 112, 9-17.	4.2	74
30	Molecular Beam Scattering of Nitrogen Molecules in Supersonic Seeded Beams:Â A Probe of Rotational Alignment. Journal of Physical Chemistry A, 1997, 101, 7648-7656.	1.1	72
31	Interaction of rotationally aligned and of oriented molecules in gas phase and at surfaces. Progress in Surface Science, 2010, 85, 92-160.	3.8	71
32	Differing Mechanisms of New Particle Formation at Two Arctic Sites. Geophysical Research Letters, 2021, 48, e2020GL091334.	1.5	70
33	Sulfate source apportionment in the Ny-Ã…lesund (Svalbard Islands) Arctic aerosol. Rendiconti Lincei, 2016, 27, 85-94.	1.0	66
34	An intermolecular potential for nitrogen from a multi-property analysis. Molecular Physics, 1998, 93, 485-499.	0.8	62
35	Global fits of new intermolecular ground state potential energy surfaces for N2–H2 and N2–N2 van der Waals dimers. Chemical Physics Letters, 2007, 445, 99-107.	1.2	62
36	Vertical profiles of aerosol and black carbon in the Arctic: a seasonal phenomenology along 2Âyears (2011–2012) of field campaigns. Atmospheric Chemistry and Physics, 2016, 16, 12601-12629.	1.9	62

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37	Scattering of Rotationally Aligned Oxygen Molecules and the Measurement of Anisotropies of van der Waals Forces. Physical Review Letters, 1995, 74, 2929-2932.	2.9	59
38	Collisional orientation of the benzene molecular plane in supersonic seeded expansions, probed by infrared polarized laser absorption spectroscopy and by molecular beam scattering. Journal of Chemical Physics, 2003, 119, 265-276.	1.2	59
39	Rotational Alignment in Supersonic Seeded Beams of Molecular Oxygen. The Journal of Physical Chemistry, 1995, 99, 13620-13626.	2.9	58
40	Bond stabilization by charge transfer: the transition from Van der Waals forces to the simplest chemical bonds. Chemical Physics Letters, 1997, 271, 216-222.	1.2	56
41	Molecular-Beam Scattering Experiments and Theoretical Calculations Probing Charge Transfer in Weakly Bound Complexes of Water. Journal of Physical Chemistry A, 2009, 113, 15223-15232.	1.1	53
42	Experimental Evidence of Chemical Components in the Bonding of Helium and Neon with Neutral Molecules. Chemistry - A European Journal, 2015, 21, 6234-6240.	1.7	53
43	Potential Energy Surfaces for Fâ^'H2and Clâ^'H2: Long-Range Interactions and Nonadiabatic Couplingsâ€. Journal of Physical Chemistry A, 2001, 105, 2401-2409.	1.1	52
44	Experimental and theoretical evidence of charge transfer in weakly bound complexes of water. Physical Chemistry Chemical Physics, 2009, 11, 9970.	1.3	52
45	Stereodynamic Effects in the Adsorption of Ethylene onto a Metal Surface. Angewandte Chemie - International Edition, 2004, 43, 5200-5203.	7.2	50
46	A Molecular Dynamics Investigation of Rare-Gas Solvated Cationâ^'Benzene Clusters Using a New Model Potential. Journal of Physical Chemistry A, 2005, 109, 2906-2911.	1.1	50
47	Wintertime aerosol dynamics and chemical composition across the mixing layer over basin valleys. Atmospheric Environment, 2012, 56, 143-153.	1.9	50
48	Coupling by charge transfer: role in bond stabilization for open-shell systems and ionic molecules and in harpooning and proton attachment processes. Molecular Physics, 2000, 98, 1749-1762.	0.8	49
49	Dimers of the major components of the atmosphere: Realistic potential energy surfaces and quantum mechanical prediction of spectral features. Physical Chemistry Chemical Physics, 2001, 3, 3891-3894.	1.3	49
50	Atomâ^'Bond Pairwise Additive Representation for Cationâ^'Benzene Potential Energy Surfaces:  An ab Initio Validation Study. Journal of Physical Chemistry A, 2006, 110, 9002-9010.	1.1	49
51	Properties of an atom–bond additive representation of the interaction for benzene–argon clusters. Chemical Physics Letters, 2004, 392, 514-520.	1.2	44
52	Role of Rotational Alignment in Dissociative Chemisorption and Oxidation: O2 on Bare and CO-Precovered Pd(100). Angewandte Chemie - International Edition, 2006, 45, 6655-6658.	7.2	44
53	Ground-based measurements of long-range transported aerosol at the rural regional background site of Monte Martano (Central Italy). Atmospheric Research, 2015, 155, 26-36.	1.8	44
54	The reaction of argon ions with hydrogen and deuterium molecules by crossed beams: Low energy resonances and role of vibronic levels of the intermediate complex. Journal of Chemical Physics, 1993, 99, 985-1003.	1.2	42

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55	On the development of an effective model potential to describe water interaction in neutral and ionic clusters. International Journal of Mass Spectrometry, 2009, 280, 50-56.	0.7	42
56	Penning ionization electron spectroscopy of water molecules by metastable neon atoms. Chemical Physics Letters, 2012, 539-540, 19-23.	1.2	42
57	Structure and charge transfer dynamics of the (Ar–N2)+ molecular cluster. Journal of Chemical Physics, 2001, 115, 8888-8898.	1.2	41
58	Molecular-beam study of the water-helium system: Features of the isotropic component of the intermolecular interaction and a critical test for the available potential-energy surfaces. Journal of Chemical Physics, 2005, 123, 024302.	1.2	41
59	Integrated single particle-bulk chemical approach for the characterization of local and long range sources of particulate pollutants. Atmospheric Environment, 2012, 50, 267-277.	1.9	41
60	Macroinvertebrate Functional Trait Responses to Chemical Pollution in Agricultural–Industrial Landscapes. River Research and Applications, 2017, 33, 505-513.	0.7	41
61	The ground and lowest excited states of XeCl by atomic beam scattering. Chemical Physics Letters, 1992, 192, 153-160.	1.2	40
62	Magnetically selected beams of atomic chlorine: measurement of long-range features of the chlorine–hydrogen and chlorine–methane potential-energy surfaces. Journal of the Chemical Society, Faraday Transactions, 1993, 89, 1467-1474.	1.7	40
63	Catching the role of anisotropic electronic distribution and charge transfer in halogen bonded complexes of noble gases. Journal of Chemical Physics, 2015, 142, 184304.	1.2	39
64	Airborne bacteria and persistent organic pollutants associated with an intense Saharan dust event in the Central Mediterranean. Science of the Total Environment, 2018, 645, 401-410.	3.9	38
65	Aerosol optical properties in the Arctic: The role of aerosol chemistry and dust composition in a closure experiment between Lidar and tethered balloon vertical profiles. Science of the Total Environment, 2019, 686, 452-467.	3.9	38
66	Intermolecular interactions of H2S with rare gases from molecular beam scattering in the glory regime and from ab initio calculations. Journal of Chemical Physics, 2006, 125, 133111.	1.2	37
67	Mineralogical and Chemical Records of Icelandic Dust Sources Upon Ny-Ãlesund (Svalbard Islands). Frontiers in Earth Science, 2018, 6, .	0.8	35
68	The intermolecular potential in NO–N2 and (NO–N2)+ systems: implications for the neutralization of ionic molecular aggregates. Physical Chemistry Chemical Physics, 2008, 10, 5993.	1.3	34
69	PMetro: Measurement of urban aerosols on a mobile platform. Measurement: Journal of the International Measurement Confederation, 2014, 49, 99-106.	2.5	34
70	Selective Emergence of the Halogen Bond in Ground and Excited States of Nobleâ€Gas–Chlorine Systems. Angewandte Chemie - International Edition, 2019, 58, 4195-4199.	7.2	33
71	Morphochemical characteristics and mixing state of long range transported wildfire particles at Ny-Alesund (Svalbard Islands). Atmospheric Environment, 2017, 156, 135-145.	1.9	32
72	Influence of Biogenic Organics on the Chemical Composition of Arctic Aerosols. Global Biogeochemical Cycles, 2019, 33, 1238-1250.	1.9	32

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73	Collision Cross Sections, Pressure-Broadening Coefficients and Second Virial Coefficients for the Acetylene-Argon Complex:Â Experiments and Calculations on a New Potential Energy Surface. Journal of Physical Chemistry A, 2005, 109, 8471-8480.	1.1	31
74	Impact of North American intense fires on aerosol optical properties measured over the European Arctic in July 2015. Journal of Geophysical Research D: Atmospheres, 2016, 121, 14,487.	1.2	31
75	Nature and Stability of Weak Halogen Bonds in the Gas Phase: Molecular Beam Scattering Experiments and Ab Initio Charge Displacement Calculations. Crystal Growth and Design, 2011, 11, 4279-4283.	1.4	30
76	Vertical Profiles and Chemical Properties of Aerosol Particles upon Ny-Ãlesund (Svalbard Islands). Advances in Meteorology, 2015, 2015, 1-11.	0.6	29
77	Source assessment of atmospheric lead measured at Ny-Ãlesund, Svalbard. Atmospheric Environment, 2015, 113, 20-26.	1.9	29
78	Size distribution and ion composition of aerosol collected at Ny-Ålesund in the spring–summer field campaign 2013. Rendiconti Lincei, 2016, 27, 47-58.	1.0	29
79	Plant-microorganisms interaction promotes removal of air pollutants in Milan (Italy) urban area. Journal of Hazardous Materials, 2020, 384, 121021.	6.5	29
80	Steric and energetic properties of the Cl-–C6H6–Arn heterocluster. European Physical Journal D, 2006, 38, 185-191.	0.6	27
81	Selective Production of Reactive and Nonreactive Oxygen Atoms on Pd(001) by Rotationally Aligned Oxygen Molecules. Angewandte Chemie - International Edition, 2009, 48, 4845-4848.	7.2	27
82	Local vs. long-range sources of aerosol particles upon Ny-Ã…lesund (Svalbard Islands): mineral chemistry and geochemical records. Rendiconti Lincei, 2016, 27, 115-127.	1.0	27
83	Vertical variability of aerosol single-scattering albedo and equivalent black carbon concentration based on in-situ and remote sensing techniques during the iAREA campaigns in Ny-Ã…lesund. Atmospheric Environment, 2017, 164, 431-447.	1.9	26
84	A study to improve the van der Waals component of the interaction in water clusters. Physica Scripta, 2008, 78, 058108.	1.2	25
85	Long-range features of potential energy surfaces for the interaction of fluorine atoms with hydrogen chloride, hydrogen bromide, and hydrogen iodide from crossed molecular beam experiments. The Journal of Physical Chemistry, 1991, 95, 8248-8255.	2.9	24
86	Dynamics of Rb+–benzene and Rb+–benzene–Ar (n⩽ 3) clusters. Chemical Physics, 2006, 328, 221-	228.0.9	24
87	Insight into the halogen-bond nature of noble gas-chlorine systems by molecular beam scattering experiments, <i>ab initio</i> calculations and charge displacement analysis. Physical Chemistry Chemical Physics, 2019, 21, 7330-7340.	1.3	24
88	Intermolecular interaction potentials for the Ar–C2H2, Kr–C2H2, and Xe–C2H2 weakly bound complexes: Information from molecular beam scattering, pressure broadening coefficients, and rovibrational spectroscopy. Journal of Chemical Physics, 2007, 126, 064311.	1.2	23
89	Charge-Displacement Analysis of the Interaction in the Ammonia–Noble Gas Complexes. Journal of Physical Chemistry A, 2011, 115, 14657-14666.	1.1	23
90	A molecular beam scattering investigation of methanol–noble gas complexes: Characterization of the isotropic potential and insights into the nature of the interaction. Chemical Physics Letters, 2012, 545, 14-20.	1.2	23

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91	Aerosol dynamics upon Terni basin (Central Italy): results of integrated vertical profile measurements and electron microscopy analyses. Rendiconti Lincei, 2013, 24, 319-328.	1.0	23
92	Correlation formula for the couplings at crossings between ionic and covalent molecular states. Journal of Chemical Physics, 1997, 106, 5043-5048.	1.2	22
93	A simple and compact mechanical velocity selector of use to analyze/select molecular alignment in supersonic seeded beams. Review of Scientific Instruments, 2004, 75, 349-354.	0.6	22
94	Velocity selection and mass spectrometric detection of an H2S molecular beam and a collisional study of its interactions with rare gases. International Journal of Mass Spectrometry, 2009, 280, 72-77.	0.7	22
95	H ₂ O–CH ₄ and H ₂ S–CH ₄ complexes: a direct comparison through molecular beam experiments and ab initio calculations. Physical Chemistry Chemical Physics, 2015, 17, 30613-30623.	1.3	22
96	Long-range transport of atmospheric lead reaching Ny-Ãlesund: Inter-annual and seasonal variations of potential source areas. Atmospheric Environment, 2016, 139, 11-19.	1.9	22
97	Investigation on the Sources and Impact of Trace Elements in the Annual Snowpack and the Firn in the Hansbreen (Southwest Spitsbergen). Frontiers in Earth Science, 2021, 8, .	0.8	22
98	Low-energy structure in theAr++H2reaction: Role of vibronic levels of the intermediate complex. Physical Review Letters, 1991, 67, 1254-1257.	2.9	21
99	Potential energy surfaces for the benzene–rare gas systems. Chemical Physics Letters, 2003, 367, 405-413.	1.2	21
100	The collisional alignment of acetylene molecules in supersonic seeded expansions probed by infrared absorption and molecular beam scattering. Chemical Physics Letters, 2007, 437, 176-182.	1.2	21
101	Molecular-beam study of the ammonia–noble gas systems: Characterization of the isotropic interaction and insights into the nature of the intermolecular potential. Journal of Chemical Physics, 2011, 135, 194301.	1.2	21
102	Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies. Science of the Total Environment, 2017, 607-608, 454-462.	3.9	21
103	State-to-state cross-sections for N2+(X,ν2′ = 1,2) + Ar and Ar+(2P) + N2(X,ν = 0) at low energies. International Journal of Mass Spectrometry, 2003, 223-224, 499-506.	0.7	20
104	Elementary Processes in Atmospheric Chemistry: Quantum Studies of Intermolecular Dimer Formation and Intramolecular Dynamics. Advances in Quantum Chemistry, 2008, 55, 311-332.	0.4	20
105	Interaction of O ₂ with CH ₄ , CF ₄ , and CCI ₄ by Molecular Beam Scattering Experiments and Theoretical Calculations. Journal of Physical Chemistry A, 2016, 120, 5197-5207.	1.1	20
106	Disentangling the major source areas for an intense aerosol advection in the Central Mediterranean on the basis of Potential Source Contribution Function modeling of chemical and size distribution measurements. Atmospheric Research, 2018, 204, 67-77.	1.8	20
107	AFLP Approach Reveals Variability in Phragmites australis: Implications for Its Die-Back and Evidence for Genotoxic Effects. Frontiers in Plant Science, 2018, 9, 386.	1.7	20
108	New insights on the stereodynamics of ethylene adsorption on an oxygen-precovered silver surface. Journal of Chemical Physics, 2005, 123, 224709.	1.2	19

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109	A molecular beam scattering study of the weakly bound complexes of water and hydrogen sulphide with the main components of air. Molecular Physics, 2010, 108, 2179-2185.	0.8	19
110	Stereodynamic Effects in the Adsorption of Propylene Molecules on Ag(001). Journal of Physical Chemistry B, 2005, 109, 22884-22889.	1.2	18
111	A magnetically selected beam of chlorine atoms. Chemical Physics Letters, 1992, 192, 145-152.	1.2	17
112	A molecular beam scattering study of weakly bound complexes: the potential energy surfaces for the C2H4–Ne, –Ar and –Kr systems. Chemical Physics Letters, 2006, 420, 100-105.	1.2	17
113	Small Water Clusters: The Cases of Rare Gas-Water, Alkali Ion-Water and Water Dimer. Lecture Notes in Computer Science, 2008, , 1026-1035.	1.0	17
114	Invertebrate diversity in relation to chemical pollution in an Umbrian stream system (Italy). Comptes Rendus - Biologies, 2015, 338, 511-520.	0.1	17
115	Iron Speciation of Natural and Anthropogenic Dust by Spectroscopic and Chemical Methods. Atmosphere, 2019, 10, 8.	1.0	17
116	Diurnal cycle of iodine, bromine, and mercury concentrations in Svalbard surface snow. Atmospheric Chemistry and Physics, 2019, 19, 13325-13339.	1.9	17
117	Characterization of long-range transported bioaerosols in the Central Mediterranean. Science of the Total Environment, 2021, 763, 143010.	3.9	17
118	Leading Interaction Components in the Structure and Reactivity of Noble Gases Compounds. Molecules, 2020, 25, 2367.	1.7	17
119	Ab initiopotentials for the S(3Pj)–rare gas dimers: Implementation for elastic and inelastic collisions and comparison with scattering potentials. Journal of Chemical Physics, 2002, 116, 9269-9280.	1.2	16
120	Alignment of ethylene molecules in supersonic seeded expansions probed by infrared polarized laser absorption and by molecular beam scattering. Chemical Physics Letters, 2006, 420, 47-53.	1.2	16
121	The spontaneous synchronized dance of pairs of water molecules. Journal of Chemical Physics, 2014, 140, 124318.	1.2	16
122	Cooperative role of halogen and hydrogen bonding in the stabilization of water adducts with apolar molecules. New Journal of Chemistry, 2018, 42, 10603-10614.	1.4	16
123	Mustelids as bioindicators of the environmental contamination by heavy metals. Ecological Indicators, 2018, 94, 320-327.	2.6	16
124	Potential Source Contribution Function Analysis of High Latitude Dust Sources over the Arctic: Preliminary Results and Prospects. Atmosphere, 2021, 12, 347.	1.0	16
125	Characterization of a molecular beam containing metastable nitrogen and its use in scattering experiments with xenon. Journal of Chemical Physics, 1994, 101, 1225-1230.	1.2	15
126	A Bondâ^'Bond Description of the Intermolecular Interaction Energy: The Case of the Weakly Bound Acetyleneâ^'Hydrogen Complex. Journal of Physical Chemistry A, 2009, 113, 14867-14874.	1.1	15

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127	Intermolecular Interaction in the NH ₃ –H ₂ and H ₂ O–H ₂ Complexes by Molecular Beam Scattering Experiments: The Role of Charge Transfer. Journal of Physical Chemistry A, 2013, 117, 12601-12607.	1.1	15
128	Intermolecular Interaction in the H ₂ S–H ₂ Complex: Molecular Beam Scattering Experiments and Ab-Inito Calculations. Journal of Physical Chemistry A, 2014, 118, 6440-6450.	1.1	15
129	Trace elements in surface sediments from Kongsfjorden, Svalbard: occurrence, sources and bioavailability. International Journal of Environmental Analytical Chemistry, 2017, 97, 401-418.	1.8	15
130	Microphysical properties and radiative impact of an intense biomass burning aerosol event measured over Ny-Alesund, Spitsbergen in July 2015. Tellus, Series B: Chemical and Physical Meteorology, 2022, 70, 1539618.	0.8	15
131	Production, characterization and scattering of a sulfur atom beam: Interatomic potentials for the rare-gas sulfides, RS (R = Ne, Ar, Kr, Xe). Physical Chemistry Chemical Physics, 2000, 2, 4081-4088.	1.3	14
132	Elemental and lead isotopic composition of atmospheric particulate measured in the Arctic region (Ny-Ãlesund, Svalbard Islands). Rendiconti Lincei, 2016, 27, 73-84.	1.0	14
133	Individual Particle Characteristics, Optical Properties and Evolution of an Extreme Longâ€Range Transported Biomass Burning Event in the European Arctic (Nyâ€Ãlesund, Svalbard Islands). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031535.	1.2	14
134	Dissociative Charge Transfer of Argon Ions with Methane Molecules from Ultralow to Superthermal Collision Energies. The Journal of Physical Chemistry, 1995, 99, 15538-15543.	2.9	13
135	Acute episodes of black carbon and aerosol contamination in a museum environment: Results of integrated real-time and off-line measurements. Atmospheric Environment, 2015, 116, 130-137.	1.9	13
136	AGAP: an atmospheric gondola for aerosol profiling. Rendiconti Lincei, 2016, 27, 105-113.	1.0	13
137	An efficient semi-quantitative macroinvertebrate multimetric index for the assessment of water and sediment contamination in streams. Inland Waters, 2017, 7, 314-322.	1.1	13
138	Molecular Beam Scattering Experiments as a Sensitive Probe of the Interaction in Bromine–Noble Gas Complexes. Frontiers in Chemistry, 2019, 7, 320.	1.8	13
139	On the role of charge transfer in the stabilization of weakly bound complexes involving water and hydrogen sulphide molecules. Chemical Physics, 2012, 398, 176-185.	0.9	12
140	Glory structure in the N2î—,N2 total integral scattering cross section. A test for the intermolecular potential energy surface. Chemical Physics Letters, 1996, 248, 237-243.	1.2	11
141	Molecular-beam scattering and pressure broadening cross sections for the acetylene-neon system. European Physical Journal D, 2007, 44, 337-344.	0.6	11
142	Polar molecules engaged in pendular states captured by molecular-beam scattering experiments. Physical Review A, 2014, 90, .	1.0	11
143	Functional exploratory data analysis for highâ€resolution measurements of urban particulate matter. Biometrical Journal, 2016, 58, 1229-1247.	0.6	11
144	Benchmarking a model potential for the investigation of intermolecular interactions. Physica Scripta, 2008, 78, 038102.	1.2	10

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145	Evolution of the Svalbard annual snow layer during the melting phase. Rendiconti Lincei, 2016, 27, 147-154.	1.0	10
146	Potential source contribution function analysis of long-range transported aerosols in the Central Mediterranean: a comparative study of two background sites in Italy. Rendiconti Lincei, 2019, 30, 337-349.	1.0	10
147	Magnetic analysis of nearly effusive and moderately supersonic beams of oxygen molecules. International Journal of Mass Spectrometry and Ion Processes, 1995, 149-150, 355-371.	1.9	9
148	Charge transfer of krypton ions with methane molecules from thermal energy to 10 eV. Chemical Physics, 1996, 209, 227-233.	0.9	9
149	Production, Characterization, and Scattering of a Beam of Sulfur Monoxide Radicals:Â The SOâ^'Noble Gas Interactions. Journal of Physical Chemistry A, 1997, 101, 6523-6527.	1.1	9
150	Cooling and alignment of ethylene molecules in supersonic seeded expansions: diagnostic and application to gas phase and surface scattering experiments. European Physical Journal D, 2006, 38, 121-127.	0.6	9
151	An <i>ab initio</i> electronic density study of the CH ₄ –Ar, CH ₄ –Xe, CH ₄ –H ₂ 0 and CH ₄ –H ₂ S complexes: insights into the nature of the intermolecular interaction. Molecular Physics, 2015, 113, 3992-3999.	0.8	9
152	Deposition processes over complex topographies: Experimental data meets atmospheric modeling. Science of the Total Environment, 2020, 744, 140974.	3.9	9
153	Spatiotemporal correlation of urban pollutants by long-term measurements on a mobile observation platform. Environmental Pollution, 2021, 268, 115645.	3.7	9
154	The intermolecular interaction in D2 â^' CX4 and O2 â^' CX4 (X = F, Cl) systems: Molecular beam scattering experiments as a sensitive probe of the selectivity of charge transfer component. Journal of Chemical Physics, 2016, 145, 134305.	1.2	8
155	Determination of black carbon and nanoparticles along glaciers in the Spitsbergen (Svalbard) region exploiting a mobile platform. Atmospheric Environment, 2017, 170, 184-196.	1.9	8
156	Potential Source Areas for Atmospheric Lead Reaching Ny-Ã…lesund from 2010 to 2018. Atmosphere, 2021, 12, 388.	1.0	8
157	lce-nucleating particle concentration measurements from Ny-Ålesund during the Arctic spring–summer in 2018. Atmospheric Chemistry and Physics, 2021, 21, 14725-14748.	1.9	8
158	Reply to the Comment on "Rotational Alignment in Supersonic Seeded Beams of Molecular Oxygen―(by) Tj	ETQq0 0 () rgBT /Overlo
159	Collisionally aligned molecular beams: a tool for stereodynamical studies in the gas phase and at surfaces. Physica Scripta, 2006, 73, C20-C24.	1.2	7
160	Modelling spatio-temporal air pollution data from a mobile monitoring station. Journal of Statistical Computation and Simulation, 2016, 86, 2546-2559.	0.7	7
161	Environmental changes in the Arctic: an Italian perspective. Rendiconti Lincei, 2016, 27, 1-6.	1.0	7
162	Evaluation of geochemical baselines and metal enrichment factor values through high ecological quality reference points: a novel methodological approach. Environmental Science and Pollution Research, 2020, 27, 930-940.	2.7	7

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