

David Cappelletti

List of Publications by Year in descending order

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187
papers

7,187
citations

43973

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74018

75
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docs citations

209
times ranked

3821
citing authors

#	ARTICLE	IF	CITATIONS
1	Microphysical properties and radiative impact of an intense biomass burning aerosol event measured over Ny-Ålesund, Spitsbergen in July 2015. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 70, 1539618.	0.8	15
2	Strontium isotopic analysis of environmental microsamples by inductively coupled plasma ICP-MS tandem mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2022, 37, 103-113.	1.6	3
3	Source, timing and dynamics of ionic species mobility in the Svalbard annual snowpack. <i>Science of the Total Environment</i> , 2021, 751, 141640.	3.9	6
4	Spatiotemporal correlation of urban pollutants by long-term measurements on a mobile observation platform. <i>Environmental Pollution</i> , 2021, 268, 115645.	3.7	9
5	Characterization of long-range transported bioaerosols in the Central Mediterranean. <i>Science of the Total Environment</i> , 2021, 763, 143010.	3.9	17
6	First discrete iron(II) records from Dome C (Antarctica) and the Høltedahlfonna glacier (Svalbard). <i>Chemosphere</i> , 2021, 267, 129335.	4.2	6
7	Differing Mechanisms of New Particle Formation at Two Arctic Sites. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091334.	1.5	70
8	Potential Source Areas for Atmospheric Lead Reaching Ny-Ålesund from 2010 to 2018. <i>Atmosphere</i> , 2021, 12, 388.	1.0	8
9	Potential Source Contribution Function Analysis of High Latitude Dust Sources over the Arctic: Preliminary Results and Prospects. <i>Atmosphere</i> , 2021, 12, 347.	1.0	16
10	Molecular beam scattering experiments probing the interaction of Cl_2 with simple molecules (D_2 , O_2). <i>Journal of Chemical Physics</i> , 2021, 155, 234301.	1.2	1
11	Variability in black carbon mass concentration in surface snow at Svalbard. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12479-12493.	1.9	3
12	Investigation on the Sources and Impact of Trace Elements in the Annual Snowpack and the Firn in the Hansbreen (Southwest Spitsbergen). <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	22
13	Ice-nucleating particle concentration measurements from Ny-Ålesund during the Arctic spring-summer in 2018. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 14725-14748.	1.9	8
14	Characteristics and Extent of Particulate Matter Emissions of a Ropeway Public Mobility System in the City Center of Perugia (Central Italy). <i>Atmosphere</i> , 2021, 12, 1356.	1.0	1
15	Population Ecology and Genetic Diversity of the Invasive Alien Species <i>Procambarus clarkii</i> in Lake Trasimeno (Italy). <i>Biology</i> , 2021, 10, 1059.	1.3	6
16	Molecular beam scattering experiments on noble gas-ethylene oxide: Total integral cross sections and potential energy surfaces of He-ethylene oxide and Ne-ethylene oxide . <i>Journal of Chemical Physics</i> , 2021, 155, 234301.	1.2	4
17	Plant-microorganisms interaction promotes removal of air pollutants in Milan (Italy) urban area. <i>Journal of Hazardous Materials</i> , 2020, 384, 121021.	6.5	29
18	Heavy metal bioaccumulation in honey bee matrix, an indicator to assess the contamination level in terrestrial environments. <i>Environmental Pollution</i> , 2020, 256, 113388.	3.7	87

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19	Evaluation of geochemical baselines and metal enrichment factor values through high ecological quality reference points: a novel methodological approach. <i>Environmental Science and Pollution Research</i> , 2020, 27, 930-940.	2.7	7
20	Deposition processes over complex topographies: Experimental data meets atmospheric modeling. <i>Science of the Total Environment</i> , 2020, 744, 140974.	3.9	9
21	Iron Speciation in Different Saharan Dust Advections and Effect of the Procedural Blank on the Results From X-ray Absorption Spectroscopy and Selective Leaching Experiments. <i>Atmosphere</i> , 2020, 11, 735.	1.0	1
22	Individual Particle Characteristics, Optical Properties and Evolution of an Extreme Long-Range Transported Biomass Burning Event in the European Arctic (Ny-Ålesund, Svalbard Islands). <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031535.	1.2	14
23	Leading Interaction Components in the Structure and Reactivity of Noble Gases Compounds. <i>Molecules</i> , 2020, 25, 2367.	1.7	17
24	Influence of Biogenic Organics on the Chemical Composition of Arctic Aerosols. <i>Global Biogeochemical Cycles</i> , 2019, 33, 1238-1250.	1.9	32
25	Molecular Beam Scattering Experiments as a Sensitive Probe of the Interaction in Bromine-Noble Gas Complexes. <i>Frontiers in Chemistry</i> , 2019, 7, 320.	1.8	13
26	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble Gas-Chlorine Systems. <i>Angewandte Chemie</i> , 2019, 131, 4239-4243.	1.6	4
27	Selective Emergence of the Halogen Bond in Ground and Excited States of Noble Gas-Chlorine Systems. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 4195-4199.	7.2	33
28	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. <i>Science of the Total Environment</i> , 2019, 686, 452-467.	3.9	38
29	Stereodynamical Effects by Anisotropic Intermolecular Forces. <i>Frontiers in Chemistry</i> , 2019, 7, 390.	1.8	5
30	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. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7330-7340.	1.3	24
31	Iron Speciation of Natural and Anthropogenic Dust by Spectroscopic and Chemical Methods. <i>Atmosphere</i> , 2019, 10, 8.	1.0	17
32	Potential source contribution function analysis of long-range transported aerosols in the Central Mediterranean: a comparative study of two background sites in Italy. <i>Rendiconti Lincei</i> , 2019, 30, 337-349.	1.0	10
33	The Halogen-Bond Nature in Noble Gas-Dihalogen Complexes from Scattering Experiments and <i>Ab Initio</i> Calculations. <i>Molecules</i> , 2019, 24, 4274.	1.7	6
34	Diurnal cycle of iodine, bromine, and mercury concentrations in Svalbard surface snow. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13325-13339.	1.9	17
35	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. <i>Atmospheric Research</i> , 2018, 204, 67-77.	1.8	20
36	Cooperative role of halogen and hydrogen bonding in the stabilization of water adducts with apolar molecules. <i>New Journal of Chemistry</i> , 2018, 42, 10603-10614.	1.4	16

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37	Mineralogical and Chemical Records of Icelandic Dust Sources Upon Ny-Ålesund (Svalbard Islands). <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	35
38	Mathematical Tool for a Closure Study of Aerosol Microphysical Property Retrieval Using Lidar and Photometer Data. , 2018, . .		0
39	AFLP Approach Reveals Variability in <i>Phragmites australis</i> : Implications for Its Die-Back and Evidence for Genotoxic Effects. <i>Frontiers in Plant Science</i> , 2018, 9, 386.	1.7	20
40	Mustelids as bioindicators of the environmental contamination by heavy metals. <i>Ecological Indicators</i> , 2018, 94, 320-327.	2.6	16
41	Airborne bacteria and persistent organic pollutants associated with an intense Saharan dust event in the Central Mediterranean. <i>Science of the Total Environment</i> , 2018, 645, 401-410.	3.9	38
42	Trace elements in surface sediments from Kongsfjorden, Svalbard: occurrence, sources and bioavailability. <i>International Journal of Environmental Analytical Chemistry</i> , 2017, 97, 401-418.	1.8	15
43	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-Ålesund. <i>Atmospheric Environment</i> , 2017, 164, 431-447.	1.9	26
44	Morphochemical characteristics and mixing state of long range transported wildfire particles at Ny-Ålesund (Svalbard Islands). <i>Atmospheric Environment</i> , 2017, 156, 135-145.	1.9	32
45	Determination of black carbon and nanoparticles along glaciers in the Spitsbergen (Svalbard) region exploiting a mobile platform. <i>Atmospheric Environment</i> , 2017, 170, 184-196.	1.9	8
46	An efficient semi-quantitative macroinvertebrate multimetric index for the assessment of water and sediment contamination in streams. <i>Inland Waters</i> , 2017, 7, 314-322.	1.1	13
47	Free amino acids in the Arctic snow and ice core samples: Potential markers for paleoclimatic studies. <i>Science of the Total Environment</i> , 2017, 607-608, 454-462.	3.9	21
48	Macroinvertebrate Functional Trait Responses to Chemical Pollution in Agriculturalâ€“Industrial Landscapes. <i>River Research and Applications</i> , 2017, 33, 505-513.	0.7	41
49	Functional exploratory data analysis for high-resolution measurements of urban particulate matter. <i>Biometrical Journal</i> , 2016, 58, 1229-1247.	0.6	11
50	Modelling spatio-temporal air pollution data from a mobile monitoring station. <i>Journal of Statistical Computation and Simulation</i> , 2016, 86, 2546-2559.	0.7	7
51	Size distribution and ion composition of aerosol collected at Ny-Ålesund in the springâ€“summer field campaign 2013. <i>Rendiconti Lincei</i> , 2016, 27, 47-58.	1.0	29
52	Heavy metals bioaccumulation in selected tissues of red swamp crayfish: An easy tool for monitoring environmental contamination levels. <i>Science of the Total Environment</i> , 2016, 559, 339-346.	3.9	98
53	Environmental changes in the Arctic: an Italian perspective. <i>Rendiconti Lincei</i> , 2016, 27, 1-6.	1.0	7
54	Impact of North American intense fires on aerosol optical properties measured over the European Arctic in July 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 14,487.	1.2	31

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55	Vertical profiles of aerosol and black carbon in the Arctic: a seasonal phenomenology along 2Âyears (2011â€“2012) of field campaigns. Atmospheric Chemistry and Physics, 2016, 16, 12601-12629.	1.9	62
56	The intermolecular interaction in D2 âˆ’ CX4 and O2 âˆ’ 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
57	Evolution of the Svalbard annual snow layer during the melting phase. Rendiconti Lincei, 2016, 27, 147-154.	1.0	10
58	Elemental and lead isotopic composition of atmospheric particulate measured in the Arctic region (Ny-Ã…lesund, Svalbard Islands). Rendiconti Lincei, 2016, 27, 73-84.	1.0	14
59	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
60	Long-range transport of atmospheric lead reaching Ny-Ã…lesund: Inter-annual and seasonal variations of potential source areas. Atmospheric Environment, 2016, 139, 11-19.	1.9	22
61	Sulfate source apportionment in the Ny-Ã…lesund (Svalbard Islands) Arctic aerosol. Rendiconti Lincei, 2016, 27, 85-94.	1.0	66
62	Interaction of O₂ with CH₄, CF₄, and CCl₄ by Molecular Beam Scattering Experiments and Theoretical Calculations. Journal of Physical Chemistry A, 2016, 120, 5197-5207.	1.1	20
63	AGAP: an atmospheric gondola for aerosol profiling. Rendiconti Lincei, 2016, 27, 105-113.	1.0	13
64	Bayesian Spatiotemporal Modeling of Urban Air Pollution Dynamics. , 2016, , 95-103.		4
65	Vertical Profiles and Chemical Properties of Aerosol Particles upon Ny-Ã…lesund (Svalbard Islands). Advances in Meteorology, 2015, 2015, 1-11.	0.6	29
66	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
67	Source assessment of atmospheric lead measured at Ny-Ã…lesund, Svalbard. Atmospheric Environment, 2015, 113, 20-26.	1.9	29
68	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
69	Invertebrate diversity in relation to chemical pollution in an Umbrian stream system (Italy). Comptes Rendus - Biologies, 2015, 338, 511-520.	0.1	17
70	H₂Oâ€“CH₄ and H₂Sâ€“CH₄ complexes: a direct comparison through molecular beam experiments and ab initio calculations. Physical Chemistry Chemical Physics, 2015, 17, 30613-30623.	1.3	22
71	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
72	An<i>ab initio</i> electronic density study of the CH₄â€“Ar, CH₄â€“Xe, CH₄â€“H₂O and CH₄â€“H₂S complexes: insights into the nature of the intermolecular interaction. Molecular Physics, 2015, 113, 3992-3999.	0.8	9

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73	Ground-based measurements of long-range transported aerosol at the rural regional background site of Monte Martano (Central Italy). <i>Atmospheric Research</i> , 2015, 155, 26-36.	1.8	44
74	Exposure vs toxicity levels of airborne quartz, metal and carbon particles in cast iron foundries. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2014, 24, 42-50.	1.8	6
75	Polar molecules engaged in pendular states captured by molecular-beam scattering experiments. <i>Physical Review A</i> , 2014, 90, .	1.0	11
76	Deformities of chironomid larvae and heavy metal pollution: From laboratory to field studies. <i>Chemosphere</i> , 2014, 112, 9-17.	4.2	74
77	The spontaneous synchronized dance of pairs of water molecules. <i>Journal of Chemical Physics</i> , 2014, 140, 124318.	1.2	16
78	Spatial and seasonal variability of carbonaceous aerosol across Italy. <i>Atmospheric Environment</i> , 2014, 99, 587-598.	1.9	137
79	PMetro: Measurement of urban aerosols on a mobile platform. <i>Measurement: Journal of the International Measurement Confederation</i> , 2014, 49, 99-106.	2.5	34
80	Intermolecular Interaction in the $H_2 \cdots H_2$ Complex: Molecular Beam Scattering Experiments and Ab-Initio Calculations. <i>Journal of Physical Chemistry A</i> , 2014, 118, 6440-6450.	1.1	15
81	Impact of black carbon aerosol over Italian basin valleys: high-resolution measurements along vertical profiles, radiative forcing and heating rate. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9641-9664.	1.9	103
82	Aerosol dynamics upon Terni basin (Central Italy): results of integrated vertical profile measurements and electron microscopy analyses. <i>Rendiconti Lincei</i> , 2013, 24, 319-328.	1.0	23
83	Intermolecular Interaction in the $NH_3 \cdots H_2$ and $H_2O \cdots H_2$ Complexes by Molecular Beam Scattering Experiments: The Role of Charge Transfer. <i>Journal of Physical Chemistry A</i> , 2013, 117, 12601-12607.	1.1	15
84	A molecular beam scattering investigation of methanol noble gas complexes: Characterization of the isotropic potential and insights into the nature of the interaction. <i>Chemical Physics Letters</i> , 2012, 545, 14-20.	1.2	23
85	Revealing Charge-Transfer Effects in Gas-Phase Water Chemistry. <i>Accounts of Chemical Research</i> , 2012, 45, 1571-1580.	7.6	107
86	Penning ionization electron spectroscopy of water molecules by metastable neon atoms. <i>Chemical Physics Letters</i> , 2012, 539-540, 19-23.	1.2	42
87	On the role of charge transfer in the stabilization of weakly bound complexes involving water and hydrogen sulphide molecules. <i>Chemical Physics</i> , 2012, 398, 176-185.	0.9	12
88	Integrated single particle-bulk chemical approach for the characterization of local and long range sources of particulate pollutants. <i>Atmospheric Environment</i> , 2012, 50, 267-277.	1.9	41
89	Wintertime aerosol dynamics and chemical composition across the mixing layer over basin valleys. <i>Atmospheric Environment</i> , 2012, 56, 143-153.	1.9	50
90	Charge-Displacement Analysis of the Interaction in the Ammonia Noble Gas Complexes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 14657-14666.	1.1	23

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91	Nature and Stability of Weak Halogen Bonds in the Gas Phase: Molecular Beam Scattering Experiments and Ab Initio Charge Displacement Calculations. <i>Crystal Growth and Design</i> , 2011, 11, 4279-4283.	1.4	30
92	Molecular-beam study of the ammonia–noble gas systems: Characterization of the isotropic interaction and insights into the nature of the intermolecular potential. <i>Journal of Chemical Physics</i> , 2011, 135, 194301.	1.2	21
93	Stereoselectivity in catalytic reactions: CO oxidation on Pd(100) by rotationally aligned O ₂ molecules. <i>European Physical Journal B</i> , 2010, 75, 81-87.	0.6	6
94	Interaction of rotationally aligned and of oriented molecules in gas phase and at surfaces. <i>Progress in Surface Science</i> , 2010, 85, 92-160.	3.8	71
95	A molecular beam scattering study of the weakly bound complexes of water and hydrogen sulphide with the main components of air. <i>Molecular Physics</i> , 2010, 108, 2179-2185.	0.8	19
96	Charge-Transfer Energy in the Water–Hydrogen Molecular Aggregate Revealed by Molecular-Beam Scattering Experiments, Charge Displacement Analysis, and ab Initio Calculations. <i>Journal of the American Chemical Society</i> , 2010, 132, 13046-13058.	6.6	80
97	Molecular-Beam Scattering Experiments and Theoretical Calculations Probing Charge Transfer in Weakly Bound Complexes of Water. <i>Journal of Physical Chemistry A</i> , 2009, 113, 15223-15232.	1.1	53
98	Selective Production of Reactive and Nonreactive Oxygen Atoms on Pd(001) by Rotationally Aligned Oxygen Molecules. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 4845-4848.	7.2	27
99	On the development of an effective model potential to describe water interaction in neutral and ionic clusters. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 50-56.	0.7	42
100	Velocity selection and mass spectrometric detection of an H ₂ S molecular beam and a collisional study of its interactions with rare gases. <i>International Journal of Mass Spectrometry</i> , 2009, 280, 72-77.	0.7	22
101	A Bond–Bond Description of the Intermolecular Interaction Energy: The Case of the Weakly Bound Acetylene–Hydrogen Complex. <i>Journal of Physical Chemistry A</i> , 2009, 113, 14867-14874.	1.1	15
102	Experimental and theoretical evidence of charge transfer in weakly bound complexes of water. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 9970.	1.3	52
103	Benchmarking a model potential for the investigation of intermolecular interactions. <i>Physica Scripta</i> , 2008, 78, 038102.	1.2	10
104	Elementary Processes in Atmospheric Chemistry: Quantum Studies of Intermolecular Dimer Formation and Intramolecular Dynamics. <i>Advances in Quantum Chemistry</i> , 2008, 55, 311-332.	0.4	20
105	A study to improve the van der Waals component of the interaction in water clusters. <i>Physica Scripta</i> , 2008, 78, 058108.	1.2	25
106	A bond–bond description of the intermolecular interaction energy: the case of weakly bound N ₂ –H ₂ and N ₂ –N ₂ complexes. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 4281.	1.3	78
107	Beyond the Lennard-Jones model: a simple and accurate potential function probed by high resolution scattering data useful for molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5489.	1.3	274
108	The intermolecular potential in NO–N ₂ and (NO–N ₂) ⁺ systems: implications for the neutralization of ionic molecular aggregates. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 5993.	1.3	34

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109	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
110	Intermolecular interaction potentials for the Ar $\hat{C}H_2$, Kr $\hat{C}H_2$, and Xe $\hat{C}H_2$ weakly bound complexes: Information from molecular beam scattering, pressure broadening coefficients, and rovibrational spectroscopy. Journal of Chemical Physics, 2007, 126, 064311.	1.2	23
111	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
112	Global fits of new intermolecular ground state potential energy surfaces for N $2\hat{H}2$ and N $2\hat{N}2$ van der Waals dimers. Chemical Physics Letters, 2007, 445, 99-107.	1.2	62
113	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
114	Molecular-beam scattering and pressure broadening cross sections for the acetylene-neon system. European Physical Journal D, 2007, 44, 337-344.	0.6	11
115	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
116	Atom \hat{B} ond Pairwise Additive Representation for Cation \hat{B} enzene Potential Energy Surfaces: An ab Initio Validation Study. Journal of Physical Chemistry A, 2006, 110, 9002-9010.	1.1	49
117	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
118	A molecular beam scattering study of weakly bound complexes: the potential energy surfaces for the C $2H4\hat{N}e$, $\hat{A}r$ and $\hat{K}r$ systems. Chemical Physics Letters, 2006, 420, 100-105.	1.2	17
119	Steric and energetic properties of the Cl- $\hat{C}6H6\hat{A}r_n$ heterocluster. European Physical Journal D, 2006, 38, 185-191.	0.6	27
120	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
121	Dynamics of Rb+ \hat{B} enzene and Rb+ \hat{B} enzene $\hat{A}r$ ($n \in \{1/2, 3\}$) clusters. Chemical Physics, 2006, 328, 221-228.0.9	0.9	24
122	Role of Rotational Alignment in Dissociative Chemisorption and Oxidation: O 2 on Bare and CO-Precovered Pd(100). Angewandte Chemie - International Edition, 2006, 45, 6655-6658.	7.2	44
123	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
124	Intermolecular interactions of H $2S$ 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
125	Atom-Bond Additive Potentials for Benzene-Rare Gas Clusters. Lecture Notes in Computer Science, 2006, , 721-730.	1.0	2
126	Heterolytic photolysis of O 2 on Ag(100). Chemical Physics Letters, 2005, 404, 336-340.	1.2	5

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127	Glory-Scattering Measurement of Water-Noble-Gas Interactions: The Birth of the Hydrogen Bond. <i>Angewandte Chemie - International Edition</i> , 2005, 44, 2356-2360.	7.2	102
128	New insights on the stereodynamics of ethylene adsorption on an oxygen-precovered silver surface. <i>Journal of Chemical Physics</i> , 2005, 123, 224709.	1.2	19
129	Orienting and aligning molecules for stereochemistry and photodynamics. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 291-300.	1.3	115
130	A Molecular Dynamics Investigation of Rare-Gas Solvated Cation ⁺ Benzene Clusters Using a New Model Potential. <i>Journal of Physical Chemistry A</i> , 2005, 109, 2906-2911.	1.1	50
131	Stereodynamic Effects in the Adsorption of Propylene Molecules on Ag(001). <i>Journal of Physical Chemistry B</i> , 2005, 109, 22884-22889.	1.2	18
132	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. <i>Journal of Chemical Physics</i> , 2005, 123, 024302.	1.2	41
133	Collision Cross Sections, Pressure-Broadening Coefficients and Second Virial Coefficients for the Acetylene-Argon Complex: Experiments and Calculations on a New Potential Energy Surface. <i>Journal of Physical Chemistry A</i> , 2005, 109, 8471-8480.	1.1	31
134	Photodynamics of clusters of the major components of the atmosphere. <i>International Journal of Photoenergy</i> , 2004, 6, 53-59.	1.4	6
135	A simple and compact mechanical velocity selector of use to analyze/select molecular alignment in supersonic seeded beams. <i>Review of Scientific Instruments</i> , 2004, 75, 349-354.	0.6	22
136	Stereodynamic Effects in the Adsorption of Ethylene onto a Metal Surface. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5200-5203.	7.2	50
137	Properties of an atom ⁺ bond additive representation of the interaction for benzene ⁺ argon clusters. <i>Chemical Physics Letters</i> , 2004, 392, 514-520.	1.2	44
138	Atom ⁺ bond pairwise additive representation for intermolecular potential energy surfaces. <i>Chemical Physics Letters</i> , 2004, 394, 37-44.	1.2	211
139	Molecular Reaction Stereodynamics: In Search of Paths to Overcome Steric Hindrances to Reactivity. , 2004, , 243-251.		3
140	Potential energy surfaces for the benzene ⁺ rare gas systems. <i>Chemical Physics Letters</i> , 2003, 367, 405-413.	1.2	21
141	State-to-state cross-sections for N ₂ ⁺ (X, $\hat{v}_{1/2} = 1, 2$) + Ar and Ar ⁺ (2P) + N ₂ (X, $\hat{v}_{1/2} = 0$) at low energies. <i>International Journal of Mass Spectrometry</i> , 2003, 223-224, 499-506.	0.7	20
142	Collisional orientation of the benzene molecular plane in supersonic seeded expansions, probed by infrared polarized laser absorption spectroscopy and by molecular beam scattering. <i>Journal of Chemical Physics</i> , 2003, 119, 265-276.	1.2	59
143	Molecular Beam Scattering Experiments On Species Of Atmospheric Relevance: Potential Energy Surfaces For Clusters And Quantum Mechanical Prediction Of Spectral Features. , 2003, , 169-182.		0
144	Ab initio potentials for the S(3P) ⁺ rare gas dimers: Implementation for elastic and inelastic collisions and comparison with scattering potentials. <i>Journal of Chemical Physics</i> , 2002, 116, 9269-9280.	1.2	16

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145	Molecular Beam Scattering Experiments on Benzene-Rare Gas Systems: Probing the Potential Energy Surfaces for the C ₆ H ₆ -He, -Ne, and -Ar Dimers. <i>Journal of Physical Chemistry A</i> , 2002, 106, 10764-10772.	1.1	81
146	The N ₂ -N ₂ system: An experimental potential energy surface and calculated rovibrational levels of the molecular nitrogen dimer. <i>Journal of Chemical Physics</i> , 2002, 117, 615-627.	1.2	82
147	Dimers of the major components of the atmosphere: Realistic potential energy surfaces and quantum mechanical prediction of spectral features. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 3891-3894.	1.3	49
148	Range, strength and anisotropy of intermolecular forces in atom-molecule systems: an atom-bond pairwise additivity approach. <i>Chemical Physics Letters</i> , 2001, 350, 286-296.	1.2	139
149	Potential Energy Surfaces for H ₂ and Cl ₂ : Long-Range Interactions and Nonadiabatic Couplings. <i>Journal of Physical Chemistry A</i> , 2001, 105, 2401-2409.	1.1	52
150	Orientation of Benzene in Supersonic Expansions, Probed by IR-Laser Absorption and by Molecular Beam Scattering. <i>Physical Review Letters</i> , 2001, 86, 5035-5038.	2.9	87
151	Structure and charge transfer dynamics of the (Ar-N ₂) ⁺ molecular cluster. <i>Journal of Chemical Physics</i> , 2001, 115, 8888-8898.	1.2	41
152	Natural Alignment and Cooling in Seeded Supersonic Free Jets: Experiments and a Quantum Mechanical View. , 2001, , 263-272.		0
153	Coupling by charge transfer: role in bond stabilization for open-shell systems and ionic molecules and in harpooning and proton attachment processes. <i>Molecular Physics</i> , 2000, 98, 1749-1762.	0.8	49
154	Production, characterization and scattering of a sulfur atom beam: Interatomic potentials for the rare-gas sulfides, RS (R = Ne, Ar, Kr, Xe). <i>Physical Chemistry Chemical Physics</i> , 2000, 2, 4081-4088.	1.3	14
155	A quantum mechanical view of molecular alignment and cooling in seeded supersonic expansions. <i>Journal of Chemical Physics</i> , 1999, 111, 2620-2632.	1.2	75
156	Quantum Interference Scattering of Aligned Molecules: Bonding in O ₄ and Role of Spin Coupling. <i>Physical Review Letters</i> , 1999, 82, 69-72.	2.9	106
157	Reply to the Comment on "Rotational Alignment in Supersonic Seeded Beams of Molecular Oxygen" (by Tj ETQq1 1 0.784314 r	1.1	7
158	Molecular Beam Scattering of Aligned Oxygen Molecules. The Nature of the Bond in the O ₂ -O ₂ Dimer. <i>Journal of the American Chemical Society</i> , 1999, 121, 10794-10802.	6.6	166
159	Production and magnetic analysis of beams of S atoms and SO radicals: a collisional study of their interactions with hydrogen molecules. <i>International Journal of Mass Spectrometry</i> , 1998, 179-180, 67-76.	0.7	2
160	An intermolecular potential for nitrogen from a multi-property analysis. <i>Molecular Physics</i> , 1998, 93, 485-499.	0.8	62
161	Scattering of aligned molecules. The potential energy surfaces for the Kr-O ₂ and Xe-O ₂ systems. <i>Journal of Chemical Physics</i> , 1998, 109, 3898-3910.	1.2	87
162	Magnetic Analysis of Supersonic Beams of Atomic Oxygen, Nitrogen, and Chlorine Generated from a Radio-Frequency Discharge. <i>Israel Journal of Chemistry</i> , 1997, 37, 329-342.	1.0	96

#	ARTICLE	IF	CITATIONS
163	Correlation formula for the couplings at crossings between ionic and covalent molecular states. <i>Journal of Chemical Physics</i> , 1997, 106, 5043-5048.	1.2	22
164	Production, Characterization, and Scattering of a Beam of Sulfur Monoxide Radicals: The SO Noble Gas Interactions. <i>Journal of Physical Chemistry A</i> , 1997, 101, 6523-6527.	1.1	9
165	Molecular Beam Scattering of Nitrogen Molecules in Supersonic Seeded Beams: A Probe of Rotational Alignment. <i>Journal of Physical Chemistry A</i> , 1997, 101, 7648-7656.	1.1	72
166	Bond stabilization by charge transfer: the transition from Van der Waals forces to the simplest chemical bonds. <i>Chemical Physics Letters</i> , 1997, 271, 216-222.	1.2	56
167	Measurements and Nature of Intermolecular Forces: Their Role in Gaseous Properties. , 1996, , 351-360.		4
168	Charge transfer of krypton ions with methane molecules from thermal energy to 10 eV. <i>Chemical Physics</i> , 1996, 209, 227-233.	0.9	9
169	Glory structure in the N ₂ ⁺ -N ₂ total integral scattering cross section. A test for the intermolecular potential energy surface. <i>Chemical Physics Letters</i> , 1996, 248, 237-243.	1.2	11
170	Range and strength of interatomic forces: dispersion and induction contributions to the bonds of dications and of ionic molecules. <i>Chemical Physics</i> , 1996, 209, 299-311.	0.9	89
171	Magnetic Analysis of Atomic and Molecular Beams. Recent Applications. <i>Journal of the Chinese Chemical Society</i> , 1995, 42, 263-273.	0.8	6
172	Magnetic analysis of nearly effusive and moderately supersonic beams of oxygen molecules. <i>International Journal of Mass Spectrometry and Ion Processes</i> , 1995, 149-150, 355-371.	1.9	9
173	Scattering of Rotationally Aligned Oxygen Molecules and the Measurement of Anisotropies of van der Waals Forces. <i>Physical Review Letters</i> , 1995, 74, 2929-2932.	2.9	59
174	Rotational Alignment in Supersonic Seeded Beams of Molecular Oxygen. <i>The Journal of Physical Chemistry</i> , 1995, 99, 13620-13626.	2.9	58
175	Dissociative Charge Transfer of Argon Ions with Methane Molecules from Ultralow to Superthermal Collision Energies. <i>The Journal of Physical Chemistry</i> , 1995, 99, 15538-15543.	2.9	13
176	Velocity dependence of collisional alignment of oxygen molecules in gaseous expansions. <i>Nature</i> , 1994, 371, 399-402.	13.7	149
177	Characterization of a molecular beam containing metastable nitrogen and its use in scattering experiments with xenon. <i>Journal of Chemical Physics</i> , 1994, 101, 1225-1230.	1.2	15
178	Magnetically selected beams of atomic chlorine: measurement of long-range features of the chlorine-hydrogen and chlorine-methane potential-energy surfaces. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1993, 89, 1467-1474.	1.7	40
179	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. <i>Journal of Chemical Physics</i> , 1993, 99, 985-1003.	1.2	42
180	Molecular beam studies of weak interactions of open-shell atoms: the ground and lowest excited states of rare-gas chlorides. <i>The Journal of Physical Chemistry</i> , 1993, 97, 2063-2071.	2.9	106

#	ARTICLE	IF	CITATIONS
181	A magnetically selected beam of chlorine atoms. Chemical Physics Letters, 1992, 192, 145-152.	1.2	17
182	The ground and lowest excited states of XeCl by atomic beam scattering. Chemical Physics Letters, 1992, 192, 153-160.	1.2	40
183	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
184	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
185	Generalization to ion-neutral systems of the polarizability correlations for interaction potential parameters. Chemical Physics Letters, 1991, 183, 297-303.	1.2	110
186	Low-energy structure in the Ar^{++}H_2 reaction: Role of vibronic levels of the intermediate complex. Physical Review Letters, 1991, 67, 1254-1257.	2.9	21
187	Scattering of magnetically analyzed F (2P) atoms and their interactions with He, Ne, H ₂ and CH ₄ . Chemical Physics, 1990, 145, 293-305.	0.9	81