

Gerard Meijer

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462
papers

25,946
citations

82
h-index

137
g-index

494
ext. papers

27,637
ext. citations

5.9
avg, IF

6.76
L-index

#	Paper	IF	Citations
462	Cavity ring-down spectroscopy: Experimental schemes and applications. <i>International Reviews in Physical Chemistry</i> , 2000 , 19, 565-607	7	677
461	Vibrational Raman and infrared spectra of chromatographically separated C60 and C70 fullerene clusters. <i>Chemical Physics Letters</i> , 1991 , 179, 181-186	2.5	616
460	Decelerating Neutral Dipolar Molecules. <i>Physical Review Letters</i> , 1999 , 83, 1558-1561	7.4	554
459	Structures of neutral Au7, Au19, and Au20 clusters in the gas phase. <i>Science</i> , 2008 , 321, 674-6	33.3	522
458	CO oxidation as a prototypical reaction for heterogeneous processes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10064-94	16.4	510
457	Gas-phase infrared multiple photon dissociation spectroscopy of mass-selected molecular ions. <i>International Journal of Mass Spectrometry</i> , 2006 , 254, 1-19	1.9	449
456	Carbon-13 NMR study of the C60 cluster in the solid state: molecular motion and carbon chemical shift anisotropy. <i>The Journal of Physical Chemistry</i> , 1991 , 95, 9-10		426
455	Electrostatic trapping of ammonia molecules. <i>Nature</i> , 2000 , 406, 491-4	50.4	417
454	NMR determination of the bond lengths in C60. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3190-3192	16.4	359
453	The vibrational Raman spectra of purified solid films of C60 and C70. <i>Chemical Physics Letters</i> , 1990 , 174, 219-222	2.5	339
452	Photoelectron angular distributions from strong-field ionization of oriented molecules. <i>Nature Physics</i> , 2010 , 6, 428-432	16.2	314
451	Free electron laser-Fourier transform ion cyclotron resonance mass spectrometry facility for obtaining infrared multiphoton dissociation spectra of gaseous ions. <i>Review of Scientific Instruments</i> , 2005 , 76, 023103	1.7	273
450	Laser-induced alignment and orientation of quantum-state-selected large molecules. <i>Physical Review Letters</i> , 2009 , 102, 023001	7.4	257
449	Cavity enhanced absorption and cavity enhanced magnetic rotation spectroscopy. <i>Review of Scientific Instruments</i> , 1998 , 69, 3763-3769	1.7	250
448	Manipulation and control of molecular beams. <i>Chemical Reviews</i> , 2012 , 112, 4828-78	68.1	242
447	Imaging C60 clusters on a surface using a scanning tunnelling microscope. <i>Nature</i> , 1990 , 348, 621-622	50.4	235
446	Infrared spectroscopy of phenylalanine Ag(I) and Zn(II) complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 2006 , 128, 517-25	16.4	226

445	Laboratory Infrared Spectroscopy of Cationic Polycyclic Aromatic Hydrocarbon Molecules. <i>Astrophysical Journal</i> , 2003 , 591, 968-985	4.7	216
444	C60 has icosahedral symmetry. <i>Journal of the American Chemical Society</i> , 1990 , 112, 8983-8984	16.4	212
443	Production and application of translationally cold molecules. <i>International Reviews in Physical Chemistry</i> , 2003 , 22, 73-128	7	204
442	Near-threshold inelastic collisions using molecular beams with a tunable velocity. <i>Science</i> , 2006 , 313, 1617-20	33.3	199
441	Taming molecular beams. <i>Nature Physics</i> , 2008 , 4, 595-602	16.2	197
440	Deceleration and trapping of ammonia using time-varying electric fields. <i>Physical Review A</i> , 2002 , 65,	2.6	194
439	Laser-induced fluorescence with tunable excimer lasers as a possible method for instantaneous temperature field measurements at high pressures: checks with an atmospheric flame. <i>Applied Optics</i> , 1988 , 27, 365-78	1.7	191
438	X-Ray Diffraction from Isolated and Strongly Aligned Gas-Phase Molecules with a Free-Electron Laser. <i>Physical Review Letters</i> , 2014 , 112,	7.4	185
437	Deceleration and electrostatic trapping of OH radicals. <i>Physical Review Letters</i> , 2005 , 94, 023004	7.4	180
436	The structure of different phases of pure C70 crystals. <i>Chemical Physics</i> , 1992 , 166, 287-297	2.3	176
435	Infrared spectroscopy of the microhydrated nitrate ions NO ₃ (-)(H ₂ O)(1-6). <i>Journal of Physical Chemistry A</i> , 2009 , 113, 7584-92	2.8	172
434	Gas-Phase Infrared Photodissociation Spectroscopy of Cationic Polyaromatic Hydrocarbons. <i>Astrophysical Journal</i> , 2000 , 542, 404-410	4.7	160
433	Gold cluster carbonyls: saturated adsorption of CO on gold cluster cations, vibrational spectroscopy, and implications for their structures. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8416-23	16.4	157
432	Slowing heavy, ground-state molecules using an alternating gradient decelerator. <i>Physical Review Letters</i> , 2004 , 92, 173002	7.4	156
431	Charge-state resolved mid-infrared spectroscopy of a gas-phase protein. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 1345-8	3.6	154
430	Decelerated molecular beams for high-resolution spectroscopy. <i>European Physical Journal D</i> , 2004 , 31, 337-349	1.3	153
429	Laser desorption jet-cooling of organic molecules. <i>Applied Physics B: Lasers and Optics</i> , 1990 , 51, 395-403	1.9	151
428	Structure determination of isolated metal clusters via far-infrared spectroscopy. <i>Physical Review Letters</i> , 2004 , 93, 023401	7.4	148

427	Vibrational spectroscopy and density functional theory of transition-metal ion-benzene and dibenzene complexes in the gas phase. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10981-91	16.4	144
426	Phase shift cavity ring down absorption spectroscopy. <i>Chemical Physics Letters</i> , 1996 , 262, 105-109	2.5	141
425	Trace gas detection with cavity ring down spectroscopy. <i>Review of Scientific Instruments</i> , 1995 , 66, 2821-2828	2.8	140
424	Coherent cavity ring down spectroscopy. <i>Chemical Physics Letters</i> , 1994 , 217, 112-116	2.5	138
423	Infrared fingerprint spectroscopy and theoretical studies of potassium ion tagged amino acids and peptides in the gas phase. <i>Journal of the American Chemical Society</i> , 2005 , 127, 8571-9	16.4	137
422	A prototype storage ring for neutral molecules. <i>Nature</i> , 2001 , 411, 174-6	50.4	137
421	Phase space manipulation of cold free radical OH molecules. <i>Physical Review Letters</i> , 2003 , 91, 243001	7.4	135
420	Mass-selected infrared photodissociation spectroscopy of V4O10+. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 1101-1104	3.6	135
419	Quantum-state selection, alignment, and orientation of large molecules using static electric and laser fields. <i>Journal of Chemical Physics</i> , 2009 , 131, 064309	3.9	134
418	Fluorescence imaging inside an internal combustion engine using tunable excimer lasers. <i>Applied Optics</i> , 1990 , 29, 2392-404	1.7	134
417	Trapping neutral molecules in a traveling potential well. <i>Physical Review Letters</i> , 2000 , 84, 5744-7	7.4	132
416	2D Nuclear magnetic resonance study of the structure of the fullerene C70. <i>Journal of the American Chemical Society</i> , 1991 , 113, 3619-3621	16.4	132
415	Unfilled orbitals of C60 and C70 from carbon K-shell X-ray absorption fine structure. <i>Chemical Physics Letters</i> , 1991 , 182, 491-496	2.5	120
414	Titanium carbide nanocrystals in circumstellar environments. <i>Science</i> , 2000 , 288, 313-6	33.3	119
413	Stepwise solvation of an amino acid: the appearance of zwitterionic structures. <i>Journal of Physical Chemistry A</i> , 2007 , 111, 7309-16	2.8	118
412	Infrared spectroscopy of hydrated bicarbonate anion clusters: HCO ₃ ⁻ (H ₂ O)(1-10). <i>Journal of the American Chemical Society</i> , 2010 , 132, 849-56	16.4	117
411	Fingerprint IR spectroscopy to probe amino acid conformations in the gas phase. <i>Physical Review Letters</i> , 2003 , 91, 203003	7.4	117
410	Resonant Ionization Using IR Light: A New Tool To Study the Spectroscopy and Dynamics of Gas-Phase Molecules and Clusters. <i>Journal of Physical Chemistry A</i> , 2003 , 107, 1671-1688	2.8	111

409	Unexpected structures of aluminum oxide clusters in the gas phase. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 3372-5	16.4	110
408	ac electric trap for ground-state molecules. <i>Physical Review Letters</i> , 2005 , 94, 083001	7.4	107
407	Quantum-state resolved bimolecular collisions of velocity-controlled OH with NO radicals. <i>Science</i> , 2012 , 338, 1060-3	33.3	106
406	Infrared spectroscopy of hydrated sulfate dianions. <i>Journal of Chemical Physics</i> , 2006 , 125, 111102	3.9	105
405	Gas phase infrared spectroscopy of mono- and divanadium oxide cluster cations. <i>Journal of Chemical Physics</i> , 2004 , 120, 6461-70	3.9	105
404	Raman scattering in single crystal C60. <i>Chemical Physics Letters</i> , 1992 , 198, 587-595	2.5	105
403	Laser deposition of carbon clusters on surfaces: A new approach to the study of Fullerenes. <i>Journal of Chemical Physics</i> , 1990 , 93, 7800-7802	3.9	105
402	Gold cluster carbonyls: vibrational spectroscopy of the anions and the effects of cluster size, charge, and coverage on the CO stretching frequency. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 23935-40	3.4	103
401	Rotational ordering transition in single-crystal C60 studied by Raman spectroscopy. <i>Physical Review Letters</i> , 1992 , 68, 1176-1179	7.4	102
400	Alternate gradient focusing and deceleration of a molecular beam. <i>Physical Review Letters</i> , 2002 , 88, 133003	7.4	101
399	Size and Charge Effects on the Binding of CO to Small Isolated Rhodium Clusters. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 14591-14598	3.4	100
398	Probing the vibrations of shared, OH+O-bound protons in the gas phase. <i>ChemPhysChem</i> , 2004 , 5, 740-3	3.2	98
397	Infrared spectra of gas-phase V(+)-(benzene) and V(+)-(benzene)(2) complexes. <i>Journal of the American Chemical Society</i> , 2002 , 124, 1562-3	16.4	97
396	Infrared spectroscopy of jet-cooled neutral and ionized aniline. <i>Journal of Chemical Physics</i> , 1999 , 110, 2010-2015	3.9	97
395	Vibrational Spectroscopy of Gas-Phase Metal-Carbide Clusters and Nanocrystals. <i>Physical Review Letters</i> , 1999 , 83, 4983-4986	7.4	97
394	Size and charge effects on the binding of CO to late transition metal clusters. <i>Journal of Chemical Physics</i> , 2006 , 124, 194305	3.9	95
393	Folding structures of isolated peptides as revealed by gas-phase mid-infrared spectroscopy. <i>ChemPhysChem</i> , 2005 , 6, 120-8	3.2	95
392	Infrared spectroscopy of niobium oxide cluster cations in a molecular beam: identifying the cluster structures. <i>Journal of the American Chemical Society</i> , 2003 , 125, 3659-67	16.4	94

391	Messenger-tagging electrosprayed ions: vibrational spectroscopy of suberate dianions. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 5874-80	2.8	92
390	Infrared spectroscopy of gas-phase Cr ⁺ coordination complexes: determination of binding sites and electronic states. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7243-54	16.4	92
389	Activation of molecular oxygen by anionic gold clusters. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4444-7	16.4	91
388	Structure determination of neutral MgO clusters--hexagonal nanotubes and cages. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 2849-56	3.6	90
387	The site of Cr ⁺ attachment to gas-phase aniline from infrared spectroscopy. <i>Journal of the American Chemical Society</i> , 2004 , 126, 724-5	16.4	90
386	The radiative lifetime of metastable CO (a 3Pi, v=0). <i>Journal of Chemical Physics</i> , 2007 , 127, 221102	3.9	87
385	Direct measurement of the radiative lifetime of vibrationally excited OH radicals. <i>Physical Review Letters</i> , 2005 , 95, 013003	7.4	87
384	Selector for structural isomers of neutral molecules. <i>Physical Review Letters</i> , 2008 , 100, 133003	7.4	86
383	The adsorption of CO on transition metal clusters: A case study of cluster surface chemistry. <i>Surface Science</i> , 2009 , 603, 1427-1433	1.8	85
382	Cold molecules: preparation, applications, and challenges. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6010-31	16.4	83
381	Laser-induced 3D alignment and orientation of quantum state-selected molecules. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 9912-8	3.6	83
380	The adsorption of CO on group 10 (Ni, Pd, Pt) transition-metal clusters. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 6144-9	3.6	82
379	Structures of silicon cluster cations in the gas phase. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1115-21	16.4	81
378	Growth and morphology of C60 crystals. <i>Chemical Physics Letters</i> , 1992 , 191, 339-344	2.5	80
377	Trapping molecules on a chip. <i>Science</i> , 2009 , 324, 1699-702	33.3	79
376	On the fluorescence of crystalline C60 at 1.2 K. <i>Chemical Physics Letters</i> , 1995 , 233, 284-290	2.5	79
375	Deceleration of neutral molecules in macroscopic traveling traps. <i>Physical Review A</i> , 2010 , 81,	2.6	78
374	Gas phase vibrational spectroscopy of mass-selected vanadium oxide anions. <i>Physical Chemistry Chemical Physics</i> , 2008 , 10, 3992-4005	3.6	78

- 373 Infrared Spectroscopy of Hydrated Bisulfate Anion Clusters: $\text{HSO}_4^-(\text{H}_2\text{O})_n$. *Journal of Physical Chemistry Letters*, **2011**, 2, 2135-2140 6.4 77
- 372 Argon physisorption as structural probe for endohedrally doped silicon clusters. *Physical Review Letters*, **2007**, 99, 063401 7.4 77
- 371 Hydrated complexes of tryptophan: ion dip infrared spectroscopy in the "molecular fingerprint" region, 1000-1500 cm^{-1} . *Physical Chemistry Chemical Physics*, **2004**, 6, 4546-4552 3.6 77
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- 369 Gas Phase Infrared Spectroscopy of Cationic Indane, Acenaphthene, Fluorene, and Fluoranthene. *Journal of Physical Chemistry A*, **2001**, 105, 8302-8309 2.8 75
- 368 Die CO-Oxidation als Modellreaktion für heterogene Prozesse. *Angewandte Chemie*, **2011**, 123, 10242-10275 3.6 73
- 367 Gas-phase IR spectroscopy of anionic iron carbonyl clusters. *Journal of the American Chemical Society*, **2004**, 126, 14726-7 16.4 73
- 366 New orientationally ordered low-temperature superstructure in high-purity C60. *Physical Review Letters*, **1992**, 69, 1065-1068 7.4 73
- 365 Secondary Structure of Ac-Alan-LysH+ Polyalanine Peptides (n = 5,10,15) in Vacuo: Helical or Not?. *Journal of Physical Chemistry Letters*, **2010**, 1, 3465-3470 6.4 72
- 364 A Fourier transform cavity ring down spectrometer. *Review of Scientific Instruments*, **1996**, 67, 2708-2713 1.7 70
- 363 Secondary structures of short peptide chains in the gas phase: double resonance spectroscopy of protected dipeptides. *Journal of Chemical Physics*, **2005**, 122, 54317 3.9 69
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- 361 H₂ adsorption on 3d transition metal clusters: a combined infrared spectroscopy and density functional study. *Journal of Physical Chemistry A*, **2008**, 112, 1139-49 2.8 68
- 360 Probing the glycosidic linkage: UV and IR ion-dip spectroscopy of a lactoside. *Journal of the American Chemical Society*, **2004**, 126, 5709-14 16.4 68
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- 358 Catching proteins in liquid helium droplets. *Physical Review Letters*, **2010**, 105, 133402 7.4 67
- 357 Polarization dependent cavity ring down spectroscopy. *Journal of Chemical Physics*, **1997**, 107, 4458-4463 3.9 67
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355	Optical pumping of trapped neutral molecules by blackbody radiation. <i>Physical Review Letters</i> , 2007 , 98, 133001	7.4	67
354	The mid-IR absorption spectrum of gas-phase clusters of the nucleobases guanine and cytosine. <i>Physical Chemistry Chemical Physics</i> , 2004 , 6, 2810-2815	3.6	67
353	Far-Infrared spectroscopy of isolated transition metal clusters. <i>European Physical Journal D</i> , 2005 , 34, 83-88	1.3	67
352	Structural phase transitions in C 70. <i>Europhysics Letters</i> , 1993 , 21, 329-334	1.6	67
351	Triplet excitation of C60 and the structure of the crystal at 1.2 K. <i>Chemical Physics Letters</i> , 1992 , 197, 314-318	2.5	67
350	Ionization of oriented carbonyl sulfide molecules by intense circularly polarized laser pulses. <i>Physical Review A</i> , 2011 , 83,	2.6	66
349	Infrared Resonance Enhanced Multiphoton Ionization of Fullerenes. <i>Physical Review Letters</i> , 1997 , 79, 5234-5237	7.4	66
348	Vibration-rotation-tunneling states of the benzene dimer: an ab initio study. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 8219-40	3.6	65
347	State- and conformer-selected beams of aligned and oriented molecules for ultrafast diffraction studies. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 2076-87	3.6	64
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345	Infrared Spectroscopy of Jet-cooled Cationic Polyaromatic Hydrocarbons: Naphthalene[TSUP]+/[TSUP]. <i>Astrophysical Journal</i> , 1999 , 520, L75-L78	4.7	64
344	Structural diversity and flexibility of MgO gas-phase clusters. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1716-9	16.4	63
343	Infrared induced reactivity on the surface of isolated size-selected clusters: dissociation of N2O on rhodium clusters. <i>Journal of the American Chemical Society</i> , 2010 , 132, 1448-9	16.4	63
342	Vibrational spectroscopy of neutral silicon clusters via far-IR-VUV two color ionization. <i>Journal of Chemical Physics</i> , 2009 , 131, 171105	3.9	63
341	An experimental value for the B(1u) C-H stretch mode in benzene. <i>Journal of Chemical Physics</i> , 2006 , 124, 171101	3.9	63
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- 336 Prospects for precision measurements on ammonia molecules in a fountain. *European Physical Journal: Special Topics*, **2008**, 163, 55-69 2.3 62
- 335 Mid-infrared spectroscopy of protected peptides in the gas phase: a probe of the backbone conformation. *Journal of the American Chemical Society*, **2006**, 128, 3592-7 16.4 62
- 334 Longitudinal focusing and cooling of a molecular beam. *Physical Review Letters*, **2002**, 89, 093004 7.4 62
- 333 Accumulating NH radicals in a magnetic trap. *Physical Review A*, **2001**, 64, 2.6 61
- 332 Trapping molecules on a chip in traveling potential wells. *Physical Review Letters*, **2008**, 100, 153003 7.4 60
- 331 Gas-Phase Infrared Spectrum of the Coronene Cation. *Astrophysical Journal*, **2001**, 560, L99-L103 4.7 60
- 330 Infrared spectroscopy of gas-phase zirconium oxide clusters. *Chemical Physics*, **2000**, 262, 31-39 2.3 60
- 329 Charge separation promoted activation of molecular oxygen by neutral gold clusters. *Journal of the American Chemical Society*, **2013**, 135, 1727-30 16.4 59
- 328 Pure samples of individual conformers: the separation of stereoisomers of complex molecules using electric fields. *Angewandte Chemie - International Edition*, **2009**, 48, 6900-2 16.4 59
- 327 Probing the structures of gas-phase rhodium cluster cations by far-infrared spectroscopy. *Journal of Chemical Physics*, **2010**, 133, 214304 3.9 59
- 326 The far-infrared spectra of neutral and cationic niobium clusters: Nb₅ 0/+ to Nb₉ 0+. *Journal of Chemical Physics*, **2007**, 127, 234306 3.9 59
- 325 Spectroscopic evidence for gas-phase formation of successive beta-turns in a three-residue peptide chain. *Journal of the American Chemical Society*, **2005**, 127, 1388-9 16.4 59
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- 322 Activated methane on small cationic platinum clusters. *Angewandte Chemie - International Edition*, **2012**, 51, 817-9 16.4 58
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- 317 Shedding New Light on Thermionic Electron Emission of Fullerenes. *Physical Review Letters*, **1998**, 81, 1825-1828 7.4 57
- 316 Lattice vibrations in crystalline C70. *Physical Review B*, **1993**, 47, 7610-7613 3.3 57
- 315 Amide-I and -II vibrations of the cyclic beta-sheet model peptide gramicidin S in the gas phase. *Journal of the American Chemical Society*, **2010**, 132, 2085-93 16.4 56
- 314 State-to-state inelastic scattering of Stark-decelerated OH radicals with Ar atoms. *Physical Chemistry Chemical Physics*, **2010**, 12, 10660-70 3.6 56
- 313 Alternating-gradient focusing and deceleration of large molecules. *Physical Review A*, **2008**, 77, 2.6 56
- 312 Transverse stability in a Stark decelerator. *Physical Review A*, **2006**, 73, 2.6 56
- 311 The gas-phase dipeptide analogue acetyl-phenylalanyl-amide: a model for the study of side chain/backbone interactions in proteins. *Journal of Physical Chemistry A*, **2005**, 109, 5281-8 2.8 56
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299	Not so loosely bound rare gas atoms: finite-temperature vibrational fingerprints of neutral gold-cluster complexes. <i>New Journal of Physics</i> , 2013 , 15, 083003	2.9	50
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295	10 K Ring Electrode Trap Tandem Mass Spectrometer for Infrared Spectroscopy of Mass Selected Ions 2009 ,		50
294	Rovibrational Motion of CO in Solid C ₆₀ . <i>Physical Review Letters</i> , 1997 , 79, 1138-1141	7.4	50
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288	Operation of a Stark decelerator with optimum acceptance. <i>Physical Review A</i> , 2009 , 79,	2.6	49
287	Tuning the geometric structure by doping silicon clusters. <i>ChemPhysChem</i> , 2008 , 9, 703-6	3.2	49
286	Vibrational spectroscopy of a non-aromatic amino acid-based model peptide: identification of the gamma-turn motif of the peptide backbone. <i>Physical Chemistry Chemical Physics</i> , 2005 , 7, 13-5	3.6	49
285	Isomer selective infrared spectroscopy of neutral metal clusters. <i>Journal of Chemical Physics</i> , 2005 , 122, 091105	3.9	49
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