

Anouk M Rijs

List of Publications by Year in descending order

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94
papers

1,973
citations

201674

27
h-index

315739

38
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112
all docs

112
docs citations

112
times ranked

1821
citing authors

#	ARTICLE	IF	CITATIONS
1	The gas-phase infrared spectra of the 2-methylallyl radical and its high-temperature reaction products. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7682-7690.	2.8	4
2	Structural Properties of Phenylalanine-Based Dimers Revealed Using IR Action Spectroscopy. <i>Molecules</i> , 2022, 27, 2367.	3.8	2
3	Gas-Phase Infrared Spectra of the C ₇ H ₅ Radical and Its Bimolecular Reaction Products. <i>Journal of Physical Chemistry A</i> , 2022, 126, 2532-2540.	2.5	4
4	New potential candidates for astronomical searches discovered in the electrical discharge of the PAH naphthalene and acetonitrile. <i>Journal of Molecular Spectroscopy</i> , 2022, 386, 111629.	1.2	1
5	Using a <i>Caenorhabditis elegans</i> Parkinson's Disease Model to Assess Disease Progression and Therapy Efficiency. <i>Pharmaceuticals</i> , 2022, 15, 512.	3.8	8
6	Fragmentation Dynamics of Fluorene Explored Using Ultrafast XUV-Vis Pump-Probe Spectroscopy. <i>Frontiers in Physics</i> , 2022, 10, .	2.1	2
7	Polycyclic aromatic hydrocarbon growth in a benzene discharge explored by IR-UV action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 14816-14824.	2.8	6
8	High-resolution infrared spectroscopy of naphthalene and acenaphthene dimers. <i>Molecular Physics</i> , 2021, 119, e1811908.	1.7	7
9	How does the composition of a PAH influence its microsolvation? A rotational spectroscopy study of the phenanthrene-water and phenanthridine-water clusters. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 9721-9732.	2.8	18
10	Metabolomics of sebum reveals lipid dysregulation in Parkinson's disease. <i>Nature Communications</i> , 2021, 12, 1592.	12.8	91
11	Probing the formation of isolated cyclo-FF peptide clusters by far-infrared action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 20945-20956.	2.8	3
12	Validating Differential Volatilome Profiles in Parkinson's Disease. <i>ACS Central Science</i> , 2021, 7, 300-306.	11.3	20
13	Time-resolved relaxation and fragmentation of polycyclic aromatic hydrocarbons investigated in the ultrafast XUV-IR regime. <i>Nature Communications</i> , 2021, 12, 6107.	12.8	18
14	Infrared Spectroscopy of Jet-cooled α -GrandPAHs in the 3-100 μ m Region. <i>Astrophysical Journal</i> , 2021, 923, 238.	4.5	4
15	Far-IR Absorption of Neutral Polycyclic Aromatic Hydrocarbons (PAHs): Light on the Mechanism of IR-UV Ion Dip Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8997-9002.	4.6	4
16	Ultrafast ionization and fragmentation dynamics of polycyclic aromatic hydro-carbons by XUV radiation. <i>Journal of Physics: Conference Series</i> , 2020, 1412, 112008.	0.4	0
17	Sodium cationization can disrupt the intramolecular hydrogen bond that mediates the sunscreen activity of oxybenzone. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19522-19531.	2.8	9
18	Characterization of glycosyl dioxolenium ions and their role in glycosylation reactions. <i>Nature Communications</i> , 2020, 11, 2664.	12.8	83

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19	Do Xylylenes Isomerize in Pyrolysis?. ChemPhysChem, 2020, 21, 1515-1518.	2.1	5
20	Unravelling the Keto↔Enol Tautomer Dependent Photochemistry and Degradation Pathways of the Protonated UVA Filter Avobenzone. Journal of Physical Chemistry A, 2020, 124, 2919-2930.	2.5	34
21	Gas-Phase Infrared Spectroscopy of Neutral Peptides: Insights from the Far-IR and THz Domain. Chemical Reviews, 2020, 120, 3233-3260.	47.7	48
22	Polycyclic aromatic hydrocarbon formation chemistry in a plasma jet revealed by IR-UV action spectroscopy. Nature Communications, 2020, 11, 269.	12.8	38
23	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	3.2	1
24	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	3.2	1
25	Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321.	3.2	1
26	The Gas-Phase Infrared Spectra of Xylyl Radicals. Journal of Physical Chemistry A, 2019, 123, 9573-9578.	2.5	7
27	Anharmonicity in the mid-infrared spectra of polycyclic aromatic hydrocarbons: molecular beam spectroscopy and calculations. Astronomy and Astrophysics, 2019, 628, A130.	5.1	21
28	Interactions of aggregating peptides probed by IR-UV action spectroscopy. Faraday Discussions, 2019, 217, 322-341.	3.2	15
29	Conformational assignment of gas phase peptides and their H-bonded complexes using far-IR/THz: IR-UV ion dip experiment, DFT-MD spectroscopy, and graph theory for mode assignment. Faraday Discussions, 2019, 217, 67-97.	3.2	13
30	Far-IR and UV spectral signatures of controlled complexation and microhydration of the polycyclic aromatic hydrocarbon acenaphthene. Physical Chemistry Chemical Physics, 2019, 21, 3414-3422.	2.8	25
31	Formation of Neutral Peptide Aggregates as Studied by Mass-Selective IR Action Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 10537-10541.	13.8	10
32	Formation of Neutral Peptide Aggregates as Studied by Mass-Selective IR Action Spectroscopy. Angewandte Chemie, 2019, 131, 10647-10651.	2.0	1
33	The Glycosylation Mechanisms of 6,3-uronic Acid Lactones. Angewandte Chemie - International Edition, 2019, 58, 8746-8751.	13.8	35
34	Competition between folded and extended structures of alanylalanine (Ala-Ala) in a molecular beam. Physical Chemistry Chemical Physics, 2019, 21, 14126-14132.	2.8	7
35	The Glycosylation Mechanisms of 6,3-uronic Acid Lactones. Angewandte Chemie, 2019, 131, 8838-8843.	2.0	9
36	Conformational Preferences of Isolated Glycylglycine (Gly-Gly) Investigated with IRMPD-VUV Action Spectroscopy and Advanced Computational Approaches. Journal of Physical Chemistry A, 2019, 123, 862-872.	2.5	10

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37	Direct Experimental Characterization of Glycosyl Cations by Infrared Ion Spectroscopy. <i>Journal of the American Chemical Society</i> , 2018, 140, 6034-6038.	13.7	68
38	Dimerization of the Benzyl Radical in a High-Temperature Pyrolysis Reactor Investigated by IR/UV Ion Dip Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 7647-7652.	3.3	18
39	Structural characterization of nucleotide 5'-triphosphates by infrared ion spectroscopy and theoretical studies. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28319-28330.	2.8	20
40	Self-Reaction of <i>ortho</i> -Benzyne at High Temperatures Investigated by Infrared and Photoelectron Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 9563-9571.	2.5	24
41	Dimerization of the Benzyl Radical in a High-Temperature Pyrolysis Reactor Investigated by IR/UV Ion Dip Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 7535-7535.	3.3	0
42	Anharmonic, dynamic and functional level effects in far-infrared spectroscopy: Phenol derivatives. <i>Journal of Molecular Spectroscopy</i> , 2017, 342, 4-16.	1.2	10
43	Mapping gas phase dipeptide motions in the far-infrared and terahertz domain. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 13778-13787.	2.8	11
44	Corannulene and its complex with water: a tiny cup of water. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 14214-14223.	2.8	39
45	Fingerprints of inter- and intramolecular hydrogen bonding in saligenin-water clusters revealed by mid- and far-infrared spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20343-20356.	2.8	21
46	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. <i>Analytical Chemistry</i> , 2017, 89, 4540-4549.	6.5	64
47	Products of the Propargyl Self-Reaction at High Temperatures Investigated by IR/UV Ion Dip Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2017, 121, 181-191.	2.5	19
48	Capturing the Elusive Water Trimer from the Stepwise Growth of Water on the Surface of the Polycyclic Aromatic Hydrocarbon Acenaphthene. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5744-5750.	4.6	48
49	Far-infrared amide IV-VI spectroscopy of isolated 2- and 4-Methylacetanilide. <i>Journal of Chemical Physics</i> , 2016, 145, 104309.	3.0	11
50	Far-infrared spectra of the tryptamine A conformer by IR-UV ion gain spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32116-32124.	2.8	12
51	Infrared Action Spectroscopy of Low-Temperature Neutral Gas-Phase Molecules of Arbitrary Structure. <i>Physical Review Letters</i> , 2016, 117, 118101.	7.8	14
52	Far-Infrared Signatures of Hydrogen Bonding in Phenol Derivatives. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1238-1243.	4.6	21
53	Aminophenol isomers unraveled by conformer-specific far-IR action spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 6275-6283.	2.8	19
54	Can far-IR action spectroscopy combined with BOMD simulations be conformation selective?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 25905-25914.	2.8	23

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55	Resonant Infrared Multiple Photon Dissociation Spectroscopy of Anionic Nucleotide Monophosphate Clusters. <i>Journal of Physical Chemistry B</i> , 2015, 119, 7894-7901.	2.6	25
56	Fourier transform microwave spectroscopy of Ac-Ser-NH ₂ : the role of side chain interactions in peptide folding. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 20274-20280.	2.8	23
57	Formation of polycyclic aromatic hydrocarbons from bimolecular reactions of phenyl radicals at high temperatures. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 29064-29071.	2.8	31
58	IR Spectroscopic Techniques to Study Isolated Biomolecules. <i>Topics in Current Chemistry</i> , 2014, 364, 1-42.	4.0	58
59	A conformation-selective IR-UV study of the dipeptides Ac-Phe-Ser-NH ₂ and Ac-Phe-Cys-NH ₂ : probing the SH ⁺ O and OH ⁺ O hydrogen bond interactions. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10770.	2.8	37
60	In-depth exploration of the photophysics of a trinuclear palladium complex. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 8332-8338.	2.8	10
61	Gas-Phase Peptide Structures Unraveled by Far-IR Spectroscopy: Combining IR-UV Ion-Dip Experiments with Born-Oppenheimer Molecular Dynamics Simulations. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3663-3666.	13.8	46
62	Unraveling the Benzocaine-Receptor Interaction at Molecular Level Using Mass-Resolved Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2013, 117, 13472-13480.	2.6	11
63	Gas-phase salt bridge interactions between glutamic acid and arginine. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16341.	2.8	15
64	Formation of water polyhedrons in propofol-water clusters. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 568-575.	2.8	16
65	Conformational Study of Z-Glu-OH and Z-Arg-OH: Dispersion Interactions versus Conventional Hydrogen Bonding. <i>Journal of Physical Chemistry A</i> , 2013, 117, 1216-1227.	2.5	31
66	Conformational Heterogeneity of Methyl 4-Hydroxycinnamate: A Gas-Phase UV-IR Spectroscopic Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4798-4805.	2.6	18
67	Mid-infrared spectroscopy of molecular ions in helium nanodroplets. <i>Journal of Chemical Physics</i> , 2012, 136, 044305.	3.0	40
68	A combined spectroscopic and theoretical study of propofol·(H ₂ O) ₃ . <i>Journal of Chemical Physics</i> , 2012, 137, 074303.	3.0	18
69	Exploring microsolvation of the anesthetic propofol. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 4398.	2.8	40
70	Far/Mid-Infrared Signatures of Solvent-Solute Interactions in a Microhydrated Model Peptide Chain. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 3307-3311.	4.6	23
71	Phenylpropargyl Radicals and Their Dimerization Products: An IR/UV Double Resonance Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8515-8522.	2.5	31
72	Structure of 2,4-Diaminopyrimidine-Theobromine Alternate Base Pairs. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11423-11427.	2.5	8

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73	IR Spectroscopy on Jet-Cooled Isolated Two-Station Rotaxanes. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9669-9675.	2.5	32
74	High-Resolution Spectroscopy of Jet-Cooled 1,1'-Diphenylethylene: Electronically Excited and Ionic States of a Prototypical Cross-Conjugated System. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9399-9410.	2.5	19
75	IR Spectroscopy of Isolated Neutral and Protonated Adenine and 9-Methyladenine. <i>ChemPhysChem</i> , 2011, 12, 1921-1927.	2.1	41
76	Isolated Gramicidin Peptides Probed by IR Spectroscopy. <i>ChemPhysChem</i> , 2011, 12, 1816-1821.	2.1	39
77	Infrared Spectra of Reactive Species Generated by Flash Pyrolysis in a Free Jet. <i>ChemPhysChem</i> , 2010, 11, 3228-3230.	2.1	6
78	Internal Proton Transfer Leading to Stable Zwitterionic Structures in a Neutral Isolated Peptide. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2332-2335.	13.8	38
79	Controlled Hydrogen-Bond Breaking in a Rotaxane by Discrete Solvation. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 3896-3900.	13.8	32
80	Absorption spectroscopy of adenine, 9-methyladenine, and 2-aminopurine in helium nanodroplets. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 15600.	2.8	12
81	Conformations and vibrational spectra of a model tripeptide: change of secondary structure upon micro-solvation. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3415.	2.8	32
82	In trap fragmentation and optical characterization of rotaxanes. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 12556.	2.8	2
83	Conformational Flexibility of a Rotaxane Thread Probed by Electronic Spectroscopy in Helium Nanodroplets. <i>Journal of the American Chemical Society</i> , 2009, 131, 12902-12903.	13.7	11
84	Stiff, and Sticky in the Right Places: Binding Interactions in Isolated Mechanically Interlocked Molecules Probed by Mid-Infrared Spectroscopy. <i>Journal of the American Chemical Society</i> , 2009, 131, 2428-2429.	13.7	33
85	Shaping of a Conformationally Flexible Molecular Structure for Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 3174-3179.	13.8	29
86	Molecular Structure and Function Probed by High-Resolution Spectroscopy. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0
87	Imaging of Ultrafast Molecular Elimination Reactions. <i>Journal of the American Chemical Society</i> , 2006, 128, 576-580.	13.7	16
88	Femtosecond Coincidence Imaging of Multichannel Multiphoton Dynamics. <i>Physical Review Letters</i> , 2004, 92, 123002.	7.8	44
89	Photoionization dynamics in CS fragmented from CS ₂ studied by high-resolution photoelectron spectroscopy. <i>Canadian Journal of Chemistry</i> , 2004, 82, 744-749.	1.1	1
90	Time-Resolved Coincidence Imaging of the Dissociative Ionization in CF ₃ I. <i>Springer Series in Chemical Physics</i> , 2003, , 88-90.	0.2	0

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91	Rotationally resolved photoionization dynamics of hot CO fragmented from OCS. Journal of Chemical Physics, 2002, 116, 2776-2782.	3.0	27
92	Rotationally resolved photoelectron spectroscopy of hot N ₂ formed in the photofragmentation of N ₂ O. Journal of Chemical Physics, 2001, 114, 9413-9420.	3.0	20
93	â€Magnetic bottleâ€™ spectrometer as a versatile tool for laser photoelectron spectroscopy. Journal of Electron Spectroscopy and Related Phenomena, 2000, 112, 151-162.	1.7	23
94	Direct Identification of Pyrene Metabolites in Organs of the Isopod Porcellio scaber by Fluorescence Line Narrowing Spectroscopy. Analytical Chemistry, 1998, 70, 1182-1185.	6.5	13