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 g-index
112 all docs	112 docs citations	112 times ranked	1821 citing authors

#	Article	IF	Citations
1	Metabolomics of sebum reveals lipid dysregulation in Parkinsonâ€™s disease. Nature Communications, 2021, 12, 1592.	12.8	91
2	Characterization of glycosyl dioxolenium ions and their role in glycosylation reactions. Nature Communications, 2020, 11, 2664.	12.8	83
3	Direct Experimental Characterization of Glycosyl Cations by Infrared Ion Spectroscopy. Journal of the American Chemical Society, 2018, 140, 6034-6038.	13.7	68
4	Bottom-Up Elucidation of Glycosidic Bond Stereochemistry. Analytical Chemistry, 2017, 89, 4540-4549.	6.5	64
5	IR Spectroscopic Techniques to Study Isolated Biomolecules. Topics in Current Chemistry, 2014, 364, 1-42.	4.0	58
6	Capturing the Elusive Water Trimer from the Stepwise Growth of Water on the Surface of the Polycyclic Aromatic Hydrocarbon Acenaphthene. Journal of Physical Chemistry Letters, 2017, 8, 5744-5750.	4.6	48
7	Gas-Phase Infrared Spectroscopy of Neutral Peptides: Insights from the Far-IR and THz Domain. Chemical Reviews, 2020, 120, 3233-3260.	47.7	48
8	Gasâ€Phase Peptide Structures Unraveled by Farâ€IR Spectroscopy: Combining IRâ€UV Ionâ€Dip Experiments with Bornâ€“Oppenheimer Molecular Dynamics Simulations. Angewandte Chemie - International Edition, 2014, 53, 3663-3666.	13.8	46
9	Femtosecond Coincidence Imaging of Multichannel Multiphoton Dynamics. Physical Review Letters, 2004, 92, 123002.	7.8	44
10	IR Spectroscopy of Isolated Neutral and Protonated Adenine and 9â€Methyladenine. ChemPhysChem, 2011, 12, 1921-1927.	2.1	41
11	Mid-infrared spectroscopy of molecular ions in helium nanodroplets. Journal of Chemical Physics, 2012, 136, 044305.	3.0	40
12	Exploring microsolvation of the anesthetic propofol. Physical Chemistry Chemical Physics, 2012, 14, 4398.	2.8	40
13	Isolated Gramicidin Peptides Probed by IR Spectroscopy. ChemPhysChem, 2011, 12, 1816-1821.	2.1	39
14	Corannulene and its complex with water: a tiny cup of water. Physical Chemistry Chemical Physics, 2017, 19, 14214-14223.	2.8	39
15	Internal Proton Transfer Leading to Stable Zwitterionic Structures in a Neutral Isolated Peptide. Angewandte Chemie - International Edition, 2010, 49, 2332-2335.	13.8	38
16	Polycyclic aromatic hydrocarbon formation chemistry in a plasma jet revealed by IR-UV action spectroscopy. Nature Communications, 2020, 11, 269.	12.8	38
17	A conformation-selective IR-UV study of the dipeptides Ac-Phe-Ser-NH2 and Ac-Phe-Cys-NH2: probing the SHâ‹¯O and OHâ‹¯O hydrogen bond interactions. Physical Chemistry Chemical Physics, 2014, 16, 10770.	2.8	37
18	The Glycosylation Mechanisms of 6,3â€Uronic Acid Lactones. Angewandte Chemie - International Edition, 2019, 58, 8746-8751.	13.8	35

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19	Unravelling the Ketoâ€“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
20	Stiff, and Sticky in the Right Places: Binding Interactions in Isolated Mechanically Interlocked Molecules Probed by Mid-Infrared Spectroscopy. Journal of the American Chemical Society, 2009, 131, 2428-2429.	13.7	33
21	Controlled Hydrogenâ€Bond Breaking in a Rotaxane by Discrete Solvation. Angewandte Chemie - International Edition, 2010, 49, 3896-3900.	13.8	32
22	Conformations and vibrational spectra of a model tripeptide: change of secondary structure upon micro-solvation. Physical Chemistry Chemical Physics, 2010, 12, 3415.	2.8	32
23	IR Spectroscopy on Jet-Cooled Isolated Two-Station Rotaxanes. Journal of Physical Chemistry A, 2011, 115, 9669-9675.	2.5	32
24	Phenylpropargyl Radicals and Their Dimerization Products: An IR/UV Double Resonance Study. Journal of Physical Chemistry A, 2012, 116, 8515-8522.	2.5	31
25	Conformational Study of Z-Glu-OH and Z-Arg-OH: Dispersion Interactions versus Conventional Hydrogen Bonding. Journal of Physical Chemistry A, 2013, 117, 1216-1227.	2.5	31
26	Formation of polycyclic aromatic hydrocarbons from bimolecular reactions of phenyl radicals at high temperatures. Physical Chemistry Chemical Physics, 2015, 17, 29064-29071.	2.8	31
27	Shaping of a Conformationally Flexible Molecular Structure for Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 3174-3179.	13.8	29
28	Rotationally resolved photoionization dynamics of hot CO fragmented from OCS. Journal of Chemical Physics, 2002, 116, 2776-2782.	3.0	27
29	Resonant Infrared Multiple Photon Dissociation Spectroscopy of Anionic Nucleotide Monophosphate Clusters. Journal of Physical Chemistry B, 2015, 119, 7894-7901.	2.6	25
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	Self-Reaction of ortho-Benzyne at High Temperatures Investigated by Infrared and Photoelectron Spectroscopy. Journal of Physical Chemistry A, 2018, 122, 9563-9571.	2.5	24
32	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
33	Far/Mid-Infrared Signatures of Solventâ€“Solute Interactions in a Microhydrated Model Peptide Chain. Journal of Physical Chemistry Letters, 2012, 3, 3307-3311.	4.6	23
34	Can far-IR action spectroscopy combined with BOMD simulations be conformation selective?. Physical Chemistry Chemical Physics, 2015, 17, 25905-25914.	2.8	23
35	Fourier transform microwave spectroscopy of Ac-Ser-NH₂: the role of side chain interactions in peptide folding. Physical Chemistry Chemical Physics, 2015, 17, 20274-20280.	2.8	23
36	Far-Infrared Signatures of Hydrogen Bonding in Phenol Derivatives. Journal of Physical Chemistry Letters, 2016, 7, 1238-1243.	4.6	21

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37	Fingerprints of inter- and intramolecular hydrogen bonding in saligeninâ€“water clusters revealed by mid- and far-infrared spectroscopy. Physical Chemistry Chemical Physics, 2017, 19, 20343-20356.	2.8	21
38	Anharmonicity in the mid-infrared spectra of polycyclic aromatic hydrocarbons: molecular beam spectroscopy and calculations. Astronomy and Astrophysics, 2019, 628, A130.	5.1	21
39	Rotationally resolved photoelectron spectroscopy of hot N2 formed in the photofragmentation of N2O. Journal of Chemical Physics, 2001, 114, 9413-9420.	3.0	20
40	Structural characterization of nucleotide 5â€²-triphosphates by infrared ion spectroscopy and theoretical studies. Physical Chemistry Chemical Physics, 2018, 20, 28319-28330.	2.8	20
41	Validating Differential Volatilome Profiles in Parkinsonâ€™s Disease. ACS Central Science, 2021, 7, 300-306.	11.3	20
42	High-Resolution Spectroscopy of Jet-Cooled 1,1â€²-Diphenylethylene: Electronically Excited and Ionic States of a Prototypical Cross-Conjugated System. Journal of Physical Chemistry A, 2011, 115, 9399-9410.	2.5	19
43	Aminophenol isomers unraveled by conformer-specific far-IR action spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 6275-6283.	2.8	19
44	Products of the Propargyl Self-Reaction at High Temperatures Investigated by IR/UV Ion Dip Spectroscopy. Journal of Physical Chemistry A, 2017, 121, 181-191.	2.5	19
45	A combined spectroscopic and theoretical study of propofolÂ·(H2O)3. Journal of Chemical Physics, 2012, 137, 074303.	3.0	18
46	Conformational Heterogeneity of Methyl 4-Hydroxycinnamate: A Gas-Phase UVâ€“IR Spectroscopic Study. Journal of Physical Chemistry B, 2013, 117, 4798-4805.	2.6	18
47	Dimerization of the Benzyl Radical in a Highâ€Temperature Pyrolysis Reactor Investigated by IR/UV Ion Dip Spectroscopy. Chemistry - A European Journal, 2018, 24, 7647-7652.	3.3	18
48	How does the composition of a PAH influence its microsolvation? A rotational spectroscopy study of the phenanthreneâ€“water and phenanthridineâ€“water clusters. Physical Chemistry Chemical Physics, 2021, 23, 9721-9732.	2.8	18
49	Time-resolved relaxation and fragmentation of polycyclic aromatic hydrocarbons investigated in the ultrafast XUV-IR regime. Nature Communications, 2021, 12, 6107.	12.8	18
50	Imaging of Ultrafast Molecular Elimination Reactions. Journal of the American Chemical Society, 2006, 128, 576-580.	13.7	16
51	Formation of water polyhedrons in propofolâ€“water clusters. Physical Chemistry Chemical Physics, 2013, 15, 568-575.	2.8	16
52	Gas-phase salt bridge interactions between glutamic acid and arginine. Physical Chemistry Chemical Physics, 2013, 15, 16341.	2.8	15
53	Interactions of aggregating peptides probed by IR-UV action spectroscopy. Faraday Discussions, 2019, 217, 322-341.	3.2	15
54	Infrared Action Spectroscopy of Low-Temperature Neutral Gas-Phase Molecules of Arbitrary Structure. Physical Review Letters, 2016, 117, 118101.	7.8	14

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55	Direct Identification of Pyrene Metabolites in Organs of the IsopodPorcellio scaberby Fluorescence Line Narrowing Spectroscopy. Analytical Chemistry, 1998, 70, 1182-1185.	6.5	13
56	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
57	Absorption spectroscopy of adenine, 9-methyladenine, and 2-aminopurine in helium nanodroplets. Physical Chemistry Chemical Physics, 2010, 12, 15600.	2.8	12
58	Far-infrared spectra of the tryptamine A conformer by IR-UV ion gain spectroscopy. Physical Chemistry Chemical Physics, 2016, 18, 32116-32124.	2.8	12
59	Conformational Flexibility of a Rotaxane Thread Probed by Electronic Spectroscopy in Helium Nanodroplets. Journal of the American Chemical Society, 2009, 131, 12902-12903.	13.7	11
60	Unraveling the Benzocaineâ€“Receptor Interaction at Molecular Level Using Mass-Resolved Spectroscopy. Journal of Physical Chemistry B, 2013, 117, 13472-13480.	2.6	11
61	Far-infrared amide IV-VI spectroscopy of isolated 2- and 4-Methylacetanilide. Journal of Chemical Physics, 2016, 145, 104309.	3.0	11
62	Mapping gas phase dipeptide motions in the far-infrared and terahertz domain. Physical Chemistry Chemical Physics, 2017, 19, 13778-13787.	2.8	11
63	In-depth exploration of the photophysics of a trinuclear palladium complex. Physical Chemistry Chemical Physics, 2014, 16, 8332-8338.	2.8	10
64	Anharmonic, dynamic and functional level effects in far-infrared spectroscopy: Phenol derivatives. Journal of Molecular Spectroscopy, 2017, 342, 4-16.	1.2	10
65	Formation of Neutral Peptide Aggregates as Studied by Massâ€Selective IR Action Spectroscopy. Angewandte Chemie - International Edition, 2019, 58, 10537-10541.	13.8	10
66	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
67	The Glycosylation Mechanisms of 6,3â€Uronic Acid Lactones. Angewandte Chemie, 2019, 131, 8838-8843.	2.0	9
68	Sodium cationization can disrupt the intramolecular hydrogen bond that mediates the sunscreen activity of oxybenzone. Physical Chemistry Chemical Physics, 2020, 22, 19522-19531.	2.8	9
69	Structure of 2,4-Diaminopyrimidineâ€“Theobromine Alternate Base Pairs. Journal of Physical Chemistry A, 2011, 115, 11423-11427.	2.5	8
70	Using a Caenorhabditis elegans Parkinsonâ€™s Disease Model to Assess Disease Progression and Therapy Efficiency. Pharmaceuticals, 2022, 15, 512.	3.8	8
71	The Gas-Phase Infrared Spectra of Xylyl Radicals. Journal of Physical Chemistry A, 2019, 123, 9573-9578.	2.5	7
72	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

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73	High-resolution infrared spectroscopy of naphthalene and acenaphthene dimers. Molecular Physics, 2021, 119, e1811908.	1.7	7
74	Infrared Spectra of Reactive Species Generated by Flash Pyrolysis in a Free Jet. ChemPhysChem, 2010, 11, 3228-3230.	2.1	6
75	Polycyclic aromatic hydrocarbon growth in a benzene discharge explored by IR-UV action spectroscopy. Physical Chemistry Chemical Physics, 2022, 24, 14816-14824.	2.8	6
76	Do Xylylenes Isomerize in Pyrolysis?. ChemPhysChem, 2020, 21, 1515-1518.	2.1	5
77	Far-IR Absorption of Neutral Polycyclic Aromatic Hydrocarbons (PAHs): Light on the Mechanism of IRâ€“UV Ion Dip Spectroscopy. Journal of Physical Chemistry Letters, 2020, 11, 8997-9002.	4.6	4
78	The gas-phase infrared spectra of the 2-methylallyl radical and its high-temperature reaction products. Physical Chemistry Chemical Physics, 2022, 24, 7682-7690.	2.8	4
79	Infrared Spectroscopy of Jet-cooled â€œGrandPAHsâ€• in the 3â€“100 Î¼m Region. Astrophysical Journal, 2021, 923, 238.	4.5	4
80	Gas-Phase Infrared Spectra of the C₇H₅ Radical and Its Bimolecular Reaction Products. Journal of Physical Chemistry A, 2022, 126, 2532-2540.	2.5	4
81	Probing the formation of isolated cyclo-FF peptide clusters by far-infrared action spectroscopy. Physical Chemistry Chemical Physics, 2021, 23, 20945-20956.	2.8	3
82	In trap fragmentation and optical characterization of rotaxanes. Physical Chemistry Chemical Physics, 2010, 12, 12556.	2.8	2
83	Structural Properties of Phenylalanine-Based Dimers Revealed Using IR Action Spectroscopy. Molecules, 2022, 27, 2367.	3.8	2
84	Fragmentation Dynamics of Fluorene Explored Using Ultrafast XUV-Vis Pump-Probe Spectroscopy. Frontiers in Physics, 2022, 10, .	2.1	2
85	Photoionization dynamics in CS fragmented from CS2 studied by high-resolution photoelectron spectroscopy. Canadian Journal of Chemistry, 2004, 82, 744-749.	1.1	1
86	Going large(r): general discussion. Faraday Discussions, 2019, 217, 476-513.	3.2	1
87	Controlling internal degrees: general discussion. Faraday Discussions, 2019, 217, 138-171.	3.2	1
88	Pushing resolution in frequency and time: general discussion. Faraday Discussions, 2019, 217, 290-321.	3.2	1
89	Formation of Neutral Peptide Aggregates as Studied by Massâ€Selective IR Action Spectroscopy. Angewandte Chemie, 2019, 131, 10647-10651.	2.0	1
90	New potential candidates for astronomical searches discovered in the electrical discharge of the PAH naphthalene and acetonitrile. Journal of Molecular Spectroscopy, 2022, 386, 111629.	1.2	1

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91	Molecular Structure and Function Probed by High-Resolution Spectroscopy. AIP Conference Proceedings, 2007, , .	0.4	0
92	Dimerization of the Benzyl Radical in a High-Temperature Pyrolysis Reactor Investigated by IR/UV Ion Dip Spectroscopy. Chemistry - A European Journal, 2018, 24, 7535-7535.	3.3	0
93	Ultrafast ionization and fragmentation dynamics of polycyclic atomatic hydro-carbons by XUV radiation. Journal of Physics: Conference Series, 2020, 1412, 112008.	0.4	0
94	Time-Resolved Coincidence Imaging of the Dissociative Ionization in CF3I. Springer Series in Chemical Physics, 2003, , 88-90.	0.2	0