

Katia Le Barbu-Debus

List of Publications by Year in descending order

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45
papers

1,192
citations

279798

23
h-index

377865

34
g-index

45
all docs

45
docs citations

45
times ranked

768
citing authors

#	ARTICLE	IF	CITATIONS
1	An Experimental and Theoretical Study of Jet-Cooled Complexes of Chiral Molecules: The Role of Dispersive Forces in Chiral Discrimination. <i>Journal of Physical Chemistry A</i> , 1998, 102, 128-137.	2.5	91
2	Intra- vs. intermolecular hydrogen bonding: dimers of alpha-hydroxyesters with methanol. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 4449.	2.8	71
3	The role of weak hydrogen bonds in chiral recognition. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 17916.	2.8	66
4	Microsolvation of similar-sized aromatic molecules: Photoelectron spectroscopy of bithiophene ⁻ , azulene ⁻ , and naphthalene ⁻ water anion clusters. <i>Journal of Chemical Physics</i> , 2000, 113, 9470-9478.	3.0	65
5	Formation of Hydrogen-Bonded Structures in Jet-Cooled Complexes of a Chiral Chromophore Studied by IR/UV Double Resonance Spectroscopy: Diastereoisomeric Complexes of (±)-2-Naphthyl-1-ethanol with (±)-2-Amino-1-propanol. <i>Journal of Physical Chemistry A</i> , 2002, 106, 6271-6278.	2.5	52
6	Conformational Analysis of Quinine and Its Pseudo Enantiomer Quinidine: A Combined Jet-Cooled Spectroscopy and Vibrational Circular Dichroism Study. <i>Journal of Physical Chemistry A</i> , 2012, 116, 8334-8344.	2.5	49
7	Electronic and vibrational spectroscopy of jet-cooled m-cyanophenol and its dimer: laser-induced fluorescence and fluorescence-dip IR spectra in the S ₀ and S ₁ states. <i>Chemical Physics</i> , 2003, 295, 21-33.	1.9	48
8	Chiral recognition between lactic acid derivatives and an aromatic alcohol in a supersonic expansion: electronic and vibrational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1007-1016.	2.8	42
9	IR-UV investigation of the structure of the 1-phenylethanol chromophore and its hydrated complexes. <i>Physical Chemistry Chemical Physics</i> , 2001, 3, 4684-4688.	2.8	40
10	Chiral Recognition in Cinchona Alkaloid Protonated Dimers: Mass Spectrometry and UV Photodissociation Studies. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3306-3312.	2.5	39
11	Structural study of hydrogen-bonded complexes between 2-aminoethanol derivatives and a chiral aromatic alcohol. <i>Journal of Molecular Structure</i> , 2004, 692, 127-137.	3.6	38
12	Chirality influence on the aggregation of methyl mandelate. <i>New Journal of Chemistry</i> , 2010, 34, 1266.	2.8	35
13	Photophysical Studies on Molecular Chirality: Ground and Excited State Enantioselective Interactions between 2-Naphthyl-1-ethanol and Natural Bicyclic Compounds. <i>Journal of Physical Chemistry A</i> , 1999, 103, 1991-1996.	2.5	33
14	Assessing cluster models of solvation for the description of vibrational circular dichroism spectra: synergy between static and dynamic approaches. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 26047-26068.	2.8	31
15	Fluorescence spectroscopy of jet-cooled chiral (±)-indan-1-ol and its cluster with (±)-methyl- and ethyl-lactate. <i>Journal of Chemical Physics</i> , 2006, 125, 174305.	3.0	30
16	Structural information on the S ₀ and S ₁ state of o-fluorophenol by hole burning and high resolution ultraviolet spectroscopy. <i>Journal of Chemical Physics</i> , 2000, 112, 6237-6244.	3.0	29
17	Chirality-dependent hydrogen bond direction in jet-cooled (S)-1,2,3,4-tetrahydro-3-isoquinoline methanol (THIQM): IR-ion dip vibrational spectroscopy of the neutral and the ion. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5160.	2.8	29
18	Microsolvation of small anions by aromatic molecules: An exploratory study. <i>Journal of Chemical Physics</i> , 2002, 116, 9663-9671.	3.0	27

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19	Chirality-dependent structuration of protonated or sodiated polyphenylalanines: IRMPD and ion mobility studies. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1807-1817.	2.8	27
20	Localization of electronic and vibrational energy in the jet-cooled m-cyanophenol/o-cyanophenol dimer: laser induced fluorescence and fluorescence-dip IR spectra. <i>Molecular Physics</i> , 2005, 103, 1655-1662.	1.7	25
21	Chiral recognition in jet-cooled complexes of (1R,2S)-(+)-cis-1-amino-2-indanol and methyl lactate: on the importance of the CH \cdots O interaction. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 7589.	2.8	25
22	Effect of puckering motion and hydrogen bond formation on the vibrational circular dichroism spectrum of a flexible molecule: the case of (S)-1-indanol. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 14635-14646.	2.8	24
23	Mass Spectrometry Study and Infrared Spectroscopy of the Complex Between Camphor and the Two Enantiomers of Protonated Alanine: The Role of Higher Energy Conformers in the Enantioselectivity of the Dissociation Rate Constants. <i>Chirality</i> , 2013, 25, 436-443.	2.6	23
24	Spectroscopic studies of enantiomeric discrimination in jet-cooled chiral complexes. <i>Chirality</i> , 2001, 13, 715-721.	2.6	22
25	Electronic and infrared spectroscopy of chiral ($\hat{\pm}$)-cis-1-amino-indan-2-ol in a supersonic jet. <i>Chemical Physics Letters</i> , 2006, 422, 218-225.	2.6	21
26	Conformation control through concurrent N $\hat{\pm}$ -H $\hat{\pm}$ -S and N $\hat{\pm}$ -H $\hat{\pm}$ -O $\hat{\pm}$ hydrogen bonding and hyperconjugation effects. <i>Chemical Science</i> , 2020, 11, 9191-9197.	7.4	20
27	Laser spectroscopy of a chiral drug in a supersonic beam: conformation and complexation of S-(+)-Naproxen. <i>Chemical Physics Letters</i> , 2003, 375, 636-644.	2.6	19
28	Formation of hydrogen-bonded bridges in jet-cooled complexes of a chiral chromophore as studied by IR/UV double resonance spectroscopy. ($\hat{\pm}$)-2-Naphthyl-1-ethanol/(methanol) _{n=1,2} complexes. <i>Physical Chemistry Chemical Physics</i> , 2002, 4, 4866-4876.	2.8	17
29	Laser induced fluorescence of jet-cooled complexes between chiral molecules: a photophysical method for chiral discrimination. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1997, 105, 277-282.	3.9	16
30	How do Pseudoenantiomers Structurally Differ in the Gas Phase? An IR/UV Spectroscopy Study of Jet-Cooled Hydroquinine and Hydroquinidine. <i>ChemPhysChem</i> , 2013, 14, 3559-3568.	2.1	16
31	Solid-state synthesis of cyclo LD $\hat{\pm}$ -diphenylalanine: A chiral phase built from achiral subunits. <i>Chirality</i> , 2020, 32, 693-703.	2.6	16
32	Laser-induced fluorescence and single vibronic level emission spectroscopy of chiral (R)-1-aminoindan and some of its clusters in a supersonic jet. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 1001-1006.	2.8	15
33	Chiral Recognition between $\hat{\pm}$ -Hydroxylesters: A Double-Resonance IR/UV Study of the Complexes of Methyl Mandelate with Methyl Glycolate and Methyl Lactate. <i>Journal of Physical Chemistry A</i> , 2008, 112, 9731-9741.	2.5	14
34	Electronic and infrared spectroscopy of jet-cooled ($\hat{\pm}$)-cis-1-amino-indan-2-ol hydrates. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 4465.	2.8	11
35	Jet-cooled hydrates of Chiral (S) 1,2,3,4-tetrahydro-3-isoquinoline methanol (THIQM): structure and mechanism of formation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 13985.	2.8	10
36	Role of Conformational Isomerism in Solvent-Mediated Charge Transfer in Chiral (<i>S</i>) 1,2,3,4-Tetrahydro-3-isoquinoline Methanol (THIQM): Condensed-Phase to Jet-Cooled Spectroscopic Studies. <i>Journal of Physical Chemistry A</i> , 2011, 115, 9354-9364.	2.5	10

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37	Structural Rearrangement in the Formation of Jet-Cooled Complexes of Chiral (<i>S</i>)-1,2,3,4-Tetrahydro-3-isoquinolinemethanol with Methyl Lactate: Chirality Effect in Conformer Selection. <i>Journal of Physical Chemistry A</i> , 2013, 117, 2952-2960.	2.5	8
38	Photofragmentation mechanisms in protonated chiral cinchona alkaloids. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 22668-22677.	2.8	7
39	Structure and collision-induced dissociation of the protonated cyclo His-Phe dipeptide: mechanistic studies and stereochemical effects. <i>European Physical Journal D</i> , 2021, 75, 1.	1.3	7
40	Laser-induced fluorescence and dispersed fluorescence studies of the donor-acceptor system 4-amino 3-methyl benzoic acid methyl ester and its solvated clusters: Evidence of excited-state charge-transfer reaction. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2010, 213, 164-170.	3.9	6
41	Chiral Recognition in Jet-Cooled Complexes. <i>Australian Journal of Chemistry</i> , 2004, 57, 1149.	0.9	5
42	Homochiral vs. heterochiral sodium core dimers of tartaric acid esters: A mass spectrometry and vibrational spectroscopy study. <i>Journal of Molecular Structure</i> , 2020, 1205, 127583.	3.6	4
43	A theoretical and experimental case study of the hydrogen bonding predilection of <i>S</i> -methylcysteine. <i>Amino Acids</i> , 2021, 53, 621-633.	2.7	4
44	Exotic Protonated Species Produced by UV-Induced Photofragmentation of a Protonated Dimer: Metastable Protonated Cinchonidine. <i>Journal of Physical Chemistry A</i> , 2015, 119, 10007-10015.	2.5	3
45	Competition between inter and intramolecular hydrogen bond evidenced by vibrational circular dichroism spectroscopy: The case of (1 <i>S</i> ,2 <i>R</i>)- α - <i>cis</i> -1-amino-2-indanol. <i>Chirality</i> , 2021, 33, 858-874.		2