Bruno MartÃ-nez-Haya

List of Publications by Year
in descending order

98 papers	2,490 citations	172457 29 h-index	223800 46 g-index
100 all docs	100 docs citations	100 times ranked	2015 citing authors

#	Article	IF	Citations
1	Inclusion complexes of the macrocycle nonactin with benchmark protonated amines: aniline and serine. Physical Chemistry Chemical Physics, 2022, 24, 8422-8431.	2.8	0
2	Tailoring the phase diagram of discotic mesogens. Soft Matter, 2021, 17, 8693-8704.	2.7	1
3	Proton in the ring: spectroscopy and dynamics of proton bonding in macrocycle cavities. Physical Chemistry Chemical Physics, 2021, 23, 21532-21543.	2.8	5
4	Molecular Characterization of Nonvolatile Fractions of Algerian Petroleum with High-Resolution Mass Spectrometry. Energy & Fuels, 2021, 35, 8699-8710.	5.1	2
5	Dynamics of coordination of H₃O⁺ and NH₄⁺ in crown ether cavities. Physical Chemistry Chemical Physics, 2021, 23, 8633-8640.	2.8	8
6	Multipodal coordination and mobility of molecular cations inside the macrocycle valinomycin. Physical Chemistry Chemical Physics, 2020, 22, 19725-19734.	2.8	3
7	Coadsorption of Counterionic Colloids at Fluid Interfaces: A Coarse-Grained Simulation Study of Gibbs Monolayers. Langmuir, 2020, 36, 2877-2885.	3.5	0
8	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. Journal of Physical Chemistry A, 2019, , .	2.5	0
9	Insights into the Recognition of Phosphate Groups by Peptidic Arginine from Action Spectroscopy and Quantum Chemical Computations. Journal of Physical Chemistry B, 2019, 123, 7528-7535.	2.6	3
10	A Clâ" Hinge for Cyclen Macrocycles: Ionic Interactions and Tweezerâ€"Like Complexes. Frontiers in Chemistry, 2019, 7, 143.	3.6	1
11	Guanidinium/ammonium competition and proton transfer in the interaction of the amino acid arginine with the tetracarboxylic 18-crown-6 ionophore. Physical Chemistry Chemical Physics, 2018, 20, 4067-4073.	2.8	16
12	Intra-cavity proton bonding and anharmonicity in the anionophore cyclen. Physical Chemistry Chemical Physics, 2018, 20, 8968-8975.	2.8	7
13	Preferential host-guest coordination of nonactin with ammonium and hydroxylammonium. Journal of Chemical Physics, 2018, 149, 225101.	3.0	7
14	Complexes of Crown Ether Macrocycles with Methyl Guanidinium: Insights into the Capture of Charge in Peptides. ChemPhysChem, 2018, 19, 2169-2175.	2.1	4
15	Isolated alkali cation complexes of the antibiotic ionophore nonactin: correlation with crystalline structures. Physical Chemistry Chemical Physics, 2017, 19, 14984-14991.	2.8	4
16	Benchmark Ditopic Binding of Cl^{â"} and Cs⁺ by the Macrocycle Hexacyclen. ChemPhysChem, 2017, 18, 1324-1332.	2.1	8
17	On the ionophoric selectivity of nonactin and related macrotetrolide derivatives. Physical Chemistry Chemical Physics, 2017, 19, 1288-1297.	2.8	6
18	Isolated complexes of the amino acid arginine with polyether and polyamine macrocycles, the role of proton transfer. Physical Chemistry Chemical Physics, 2017, 19, 31345-31351.	2.8	25

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19	Ab initio molecular dynamics investigation of proton delocalization in crown ether complexes with H3O+ and NH4 +. Journal of Inclusion Phenomena and Macrocyclic Chemistry, 2016, 85, 83-92.	1.6	6
20	A Comparative study of the chemical structure of asphaltenes from Algerian petroleum collected at different stages of extraction and processing. Journal of Petroleum Science and Engineering, 2016, 138, 50-56.	4.2	22
21	Enhanced cation recognition by a macrocyclic ionophore at the airâ€“solution interface probed by mass spectrometry. Physical Chemistry Chemical Physics, 2016, 18, 3497-3503.	2.8	7
22	Binding Selectivity of Macrocycle Ionophores in Ionic Liquids versus Aqueous Solution and Solventâ€free Conditions. ChemPhysChem, 2015, 16, 3672-3680.	2.1	5
23	The Cl + O₃ reaction: a detailed QCT simulation of molecular beam experiments. Physical Chemistry Chemical Physics, 2015, 17, 25471-25482.	2.8	5
24	Liquid crystal phase diagram of soft repulsive rods and its mapping on the hard repulsive reference fluid. Molecular Physics, 2015, 113, 1137-1144.	1.7	20
25	Transport of spherical colloids in layered phases of binary mixtures with rod-like particles. Soft Matter, 2015, 11, 3432-3440.	2.7	9
26	Platinum Nanoparticles as Photoactive Substrates for Mass Spectrometry and Spectroscopy Sensors. Journal of Physical Chemistry C, 2014, 118, 11432-11439.	3.1	28
27	Ultraviolet laser desorption/ionization mass spectrometry of single-core and multi-core polyaromatic hydrocarbons under variable conditions of collisional cooling: insights into the generation of molecular ions, fragments and oligomers. Journal of Mass Spectrometry, 2014, 49, 1127-1138.	1.6	7
28	Chiral Recognition of Amino Acid Enantiomers by a Crown Ether: Chiroptical IR-VCD Response and Computational Study. Journal of Physical Chemistry B, 2013, 117, 9362-9370.	2.6	31
29	Comparative study of pulsed laser cleaning applied to weathered marble surfaces. Applied Surface Science, 2013, 283, 193-201.	6.1	59
30	Cations in a Molecular Funnel: Vibrational Spectroscopy of Isolated Cyclodextrin Complexes with Alkali Metals. ChemPhysChem, 2013, 14, 400-407.	2.1	15
31	Multipodal coordination of a tetracarboxylic crown ether with NH 4+: A vibrational spectroscopy and computational study. Journal of Chemical Physics, 2012, 136, 114301.	3.0	8
32	High-Resolution Rotational Spectroscopy of a Cyclic Ether. Journal of Physical Chemistry Letters, 2012, 3, 482-485.	4.6	11
33	Microwave spectroscopy and quantum chemical investigation of nine low energy conformers of the 15-crown-5 ether. Physical Chemistry Chemical Physics, 2012, 14, 12912.	2.8	15
34	Tweezerâ€like Complexes of Crown Ethers with Divalent Metals: Probing Cationâ€Sizeâ€Dependent Conformations by Vibrational Spectroscopy in the Gas Phase. ChemPlusChem, 2012, 77, 118-123.	2.8	11
35	Conformational landscape of a chiral crown ether: a vibrational circular dichroism spectroscopy and computational study. Tetrahedron: Asymmetry, 2012, 23, 294-299.	1.8	11
36	Theoretical study of the dynamics of Cl + O3 reaction I. Ab initio potential energy surface and quasiclassical trajectory results. Physical Chemistry Chemical Physics, 2011, 13, 8537.	2.8	9

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37	Phase behavior of hard colloidal platelets using free energy calculations. Journal of Chemical Physics, 2011, 134, 094501.	3.0	59
38	Platinum Nanoparticles Prepared by Laser Ablation in Aqueous Solutions: Fabrication and Application to Laser Desorption Ionization. Journal of Physical Chemistry C, 2011, 115, 22217-22224.	3.1	46
39	Vibrational study of isolated 18-crown-6 ether complexes with alkaline-earth metal cations. International Journal of Mass Spectrometry, 2011, 308, 217-224.	1.5	45
40	Crown Ether Complexes with H₃O⁺ and NH₄⁺: Proton Localization and Proton Bridge Formation. Journal of Physical Chemistry A, 2011, 115, 7275-7282.	2.5	55
41	Emergence of Symmetry and Chirality in Crown Ether Complexes with Alkali Metal Cations. Journal of Physical Chemistry A, 2010, 114, 7048-7054.	2.5	64
42	UV-Vis-NIR Laser Desorption/Ionization of Synthetic Polymers Assisted by Gold Nanospheres, Nanorods and Nanostars. Plasmonics, 2010, 5, 125-133.	3.4	28
43	Nematic stability of discotic liquid crystals with orientation-dependent interactions. Physical Review E, 2010, 81, 020701.	2.1	9
44	Nanoparticle TiO₂ Films Prepared by Pulsed Laser Deposition: Laser Desorption and Cationization of Model Adsorbates. Journal of Physical Chemistry C, 2010, 114, 17409-17415.	3.1	24
45	One- and Two-Step Ultraviolet and Infrared Laser Desorption Ionization Mass Spectrometry of Asphaltenes. Energy & Fuels, 2010, 24, 6067-6073.	5.1	28
46	Gasâ€“phase complexes of cyclic and linear polyethers with alkali cations. Physical Chemistry Chemical Physics, 2010, 12, 13752.	2.8	31
47	Columnar phases of discotics with orientation-dependent interactions. Journal of Chemical Physics, 2009, 131, 074901.	3.0	20
48	Simulation study of discotic molecules in the vicinity of the isotropicâ€“liquid crystal transition. Molecular Simulation, 2009, 35, 1077-1083.	2.0	14
49	Spectroscopic Investigation of the Gas-Phase Conformations of 15-Crown-5 Ether Complexes with K+. Journal of Physical Chemistry A, 2009, 113, 7748-7752.	2.5	29
50	Liquid crystal phase behavior of hard oblate spherocylinders. , 2009, , .		0
51	Poly(ethylene glycol) cationization with alkali metals inÂmatrix-assisted laser desorption ionization investigated withÂtheÂsolvent-free method. Applied Physics A: Materials Science and Processing, 2008, 92, 859-863.	2.3	9
52	Matrix-assisted laser desorption mass spectrometry of gas-phase peptideâ€“metal complexes. Applied Physics A: Materials Science and Processing, 2008, 93, 935-939.	2.3	6
53	Solvent-Free MALDI Investigation of the Cationization of Linear Polyethers with Alkali Metals. Journal of Physical Chemistry B, 2008, 112, 8530-8535.	2.6	31
54	Contrasting Perspective on Asphaltene Molecular Weight. This Comment vs the Overview of A. A. Herod, K. D. Bartle, and R. Kandiyoti. Energy & Fuels, 2008, 22, 1765-1773.	5.1	159

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55	Columnar phases of discotic spherocylinders. Journal of Chemical Physics, 2008, 129, 214706.	3.0	40
56	Use of Parsons-Lee and Onsager theories to predict nematic and demixing behavior in binary mixtures of hard rods and hard spheres. Physical Review E, 2007, 75, 061701.	2.1	37
57	Fragmentation and Gas Phase Aggregation Processes in the Laser Desorption/Ionization of Chlorodiaminotriazines. European Journal of Mass Spectrometry, 2007, 13, 321-329.	1.0	1
58	Stability of Nematic and Smectic Phases in Rod-Like Mesogens with Orientationâ^'Dependent Attractive Interactions. Journal of Physical Chemistry B, 2007, 111, 8150-8157.	2.6	33
59	Molecular-Weight Distributions of Coal and Petroleum Asphaltenes from Laser Desorption/Ionization Experiments. Energy & Fuels, 2007, 21, 2863-2868.	5.1	150
60	Laser desorption/ionization determination of molecular weight distributions of polyaromatic carbonaceous compounds and their aggregates. Journal of Mass Spectrometry, 2007, 42, 701-713.	1.6	78
61	Characterization and Langmuir film properties of asphaltenes extracted from Arabian light crude oil. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2007, 298, 72-79.	4.7	35
62	Matrixâ€assisted laser desorption/ionization detection of carbonaceous compounds in ionic liquid matrices. Rapid Communications in Mass Spectrometry, 2007, 21, 3161-3164.	1.5	17
63	On the determination of molecular weight distributions of asphaltenes and their aggregates in laser desorption ionization experiments. Journal of Mass Spectrometry, 2006, 41, 960-968.	1.6	127
64	Freezing of hard spheres confined in narrow cylindrical pores. Journal of Chemical Physics, 2006, 125, 144702.	3.0	28
65	Effect of Macromolecular Crowding on the Conformation of Confined Chain Polymers. Macromolecular Theory and Simulations, 2005, 14, 421-427.	1.4	13
66	Quasiclassical determination of reaction probabilities as a function of the total angular momentum. Journal of Chemical Physics, 2005, 123, 094101.	3.0	47
67	A novel orientation-dependent potential model for prolate mesogens. Journal of Chemical Physics, 2005, 122, 024908.	3.0	27
68	Low-Temperature Rotational Relaxation of CO in Self-Collisions and in Collisions with Ne and He. Journal of Physical Chemistry A, 2005, 109, 9402-9413.	2.5	8
69	Parsonsâ^'Lee and Monte Carlo Study of Soft Repulsive Nematogens. Journal of Physical Chemistry B, 2005, 109, 13729-13736.	2.6	18
70	Photodissociation and multiphoton dissociative ionization processes in CH3S2CH3 at 193 nm studied using velocity-map imaging. Journal of Chemical Physics, 2004, 120, 11042-11052.	3.0	21
71	Crowding effects in binary mixtures of rod-like and spherical particles. Journal of Molecular Recognition, 2004, 17, 417-425.	2.1	30
72	Photodissociation Dynamics of Dimethyl Sulfide Following Excitation within the First Absorption Bandâ€. Journal of Physical Chemistry A, 2004, 108, 7936-7948.	2.5	10

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73	Low temperature rotational relaxation of N2 in collisions with He. Chemical Physics Letters, 2003, 367, 500-506.	2.6	7
74	Angular momentum alignment of Cl(2P3/2) in the 308 nm photolysis of Cl2 determined using Fourier moment velocity-map imaging. Physical Chemistry Chemical Physics, 2003, 5, 856-864.	2.8	47
75	Liquid crystal behavior of the Kihara fluid. Physical Review E, 2003, 68, 011704.	2.1	25
76	Solution of the Percus-Yevick equation for square well spherocylinders. Physical Review E, 2003, 67, 051201.	2.1	8
77	The O(1D)+H2 reaction at 56 meV collision energy: A comparison between quantum mechanical, quasiclassical trajectory, and crossed beam results. Journal of Chemical Physics, 2002, 116, 10692-10703.	3.0	74
78	Monte Carlo study of liquid crystal phases of hard and soft spherocylinders. Journal of Chemical Physics, 2002, 117, 2934-2946.	3.0	50
79	A quasiclassical trajectory and quantum mechanical study of the O(1D)â€‰+â€‰D2reaction dynamics. Comparison with high resolution molecular beam experiments. Physical Chemistry Chemical Physics, 2002, 4, 4379-4385.	2.8	19
80	Gas phase molecular relaxation at very low temperatures. A comparative study of N2 and its mixtures with He and Ne. Vacuum, 2002, 64, 417-423.	3.5	7
81	The stereodynamics of the O(1D)+HD reaction on the ground 1â€Š1Aâ€² and excited 1â€Š1Aâ€³ potential energy surfaces. Journal of Chemical Physics, 2001, 114, 8328-8338.	3.0	23
82	Low-Temperature Rotational Relaxation of N2 in Collisions with Ne. Journal of Physical Chemistry A, 2001, 105, 6976-6982.	2.5	12
83	Gibbs ensemble simulation of the vapour-liquid equilibrium of square well spherocylinders. Molecular Physics, 2001, 99, 509-516.	1.7	14
84	The photodissociation of CH[sub 3]SCH[sub 3] and CD[sub 3]SCD[sub 3] at 220â€“231 nm investigated by velocity map ion imaging. Journal of Chemical Physics, 2001, 114, 4450.	3.0	18
85	Photodissociation of CD3SCD3on the First Absorption Band:Â Translational and Internal Energy Transfer to the CD3Fragment Studied by Resonant Multiphoton Ionization and Time-of-Flight Spectrometryâ€. Journal of Physical Chemistry A, 2000, 104, 10150-10158.	2.5	10
86	Analytical solution to a nonseparable interaction model for a one-dimensional fluid of anisotropic molecules near a hard wall. Physical Review E, 1999, 59, 1957-1967.	2.1	5
87	Low-Temperature Rotational Relaxation of N2 Studied with Resonance-Enhanced Multiphoton Ionization. Journal of Physical Chemistry A, 1999, 103, 823-832.	2.5	26
88	Quantum mechanical and quasiclassical trajectory study of state-to-state differential cross sections for the F+D2â†’DF+D reaction in the center-of-mass and laboratory frames. Physical Chemistry Chemical Physics, 1999, 1, 3415-3427.	2.8	39
89	Quantum mechanical and quasiclassical simulations of molecular beam experiments for the F+H2â†’HF+H reaction on two ab initio potential energy surfaces. Journal of Chemical Physics, 1998, 109, 7224-7237.	3.0	81
90	The H+D2 reaction in the vicinity of the conical intersection. Journal of Chemical Physics, 1997, 106, 7862-7864.	3.0	37

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91	Ab InitioSimulation of Molecular Beam Experiments for the F + H2â†' HF + H Reaction. Journal of Physical Chemistry A, 1997, 101, 6403-6414.	2.5	59
92	Experimental Absolute Cross-Sections for the Reaction F + D2at Collision Energies 90â^'240 meV. Journal of Physical Chemistry A, 1997, 101, 6415-6428.	2.5	35
93	F-D2 state resolved reactive scattering at 180 and 240 meV collision energies. I. A high resolution crossed molecular beam experiment. Chemical Physics, 1996, 207, 227-243.	1.9	25
94	F-D2 state resolved reactive scattering at 180 and 240 meV collision energies. II. Quasi-classical cross sections. A comparison with the experimental results. Chemical Physics, 1996, 207, 245-259.	1.9	22
95	An intense fluorine atom beam source. Journal Physics D: Applied Physics, 1996, 29, 1885-1893.	2.8	14
96	New Results on the Reactive Scattering of Atomic Fluorine by Molecular Deuterium at 3.2 kcal/mol Collision Energy. Zeitschrift Fur Physikalische Chemie, 1995, 188, 197-214.	2.8	22
97	A scattering study of the dependence of the F + D2(ji = 0, 1, 2) â†' DF(Î½f,jf) + D reaction on the initial rotational state. Chemical Physics Letters, 1995, 232, 197-206.	2.6	42
98	A further test of the shape and anisotropy of the Fî—¸H2 interaction potential. Chemical Physics, 1995, 200, 405-413.	1.9	10