

Sã©rgio R Domingos

List of Publications by Year in descending order

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42
papers

1,012
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471509

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docs citations

47
times ranked

1363
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of Porphyrin-Co(III)- π -Nitrene Radical TM Species Relevant in Catalytic Nitrene Transfer Reactions. <i>Journal of the American Chemical Society</i> , 2015, 137, 5468-5479.	13.7	185
2	On the origin of the extremely different solubilities of polyethers in water. <i>Nature Communications</i> , 2019, 10, 2893.	12.8	88
3	Chiral Analysis Using Broadband Rotational Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 341-350.	4.6	66
4	Coherent Enantiomer-Selective Population Enrichment Using Tailored Microwave Fields. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12512-12517.	13.8	66
5	Amplified Vibrational Circular Dichroism as a Probe of Local Biomolecular Structure. <i>Journal of the American Chemical Society</i> , 2014, 136, 3530-3535.	13.7	53
6	Flexibility unleashed in acyclic monoterpenes: conformational space of citronellal revealed by broadband rotational spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16682-16689.	2.8	53
7	Sensing Chirality with Rotational Spectroscopy. <i>Annual Review of Physical Chemistry</i> , 2018, 69, 499-519.	10.8	45
8	Observations of tetrel bonding between sp ³ -carbon and THF. <i>Chemical Science</i> , 2020, 11, 5289-5293.	7.4	43
9	Taming conformational heterogeneity in and with vibrational circular dichroism spectroscopy. <i>Chemical Science</i> , 2019, 10, 7680-7689.	7.4	40
10	Direct Access to Polyisocyanide Screw Sense Using Vibrational Circular Dichroism. <i>Macromolecules</i> , 2010, 43, 7931-7935.	4.8	37
11	Switchable Amplification of Vibrational Circular Dichroism as a Probe of Local Chiral Structure. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 14042-14045.	13.8	27
12	Assessing the performance of rotational spectroscopy in chiral analysis. <i>Chemical Science</i> , 2020, 11, 10863-10870.	7.4	27
13	Amplifying vibrational circular dichroism by manipulation of the electronic manifold. <i>Chemical Communications</i> , 2012, 48, 353-355.	4.1	23
14	Cold Snapshot of a Molecular Rotary Motor Captured by High-Resolution Rotational Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11209-11212.	13.8	22
15	The structure of salt bridges between Arg ⁺ and Glu ⁻ in peptides investigated with 2D-IR spectroscopy: Evidence for two distinct hydrogen-bond geometries. <i>Journal of Chemical Physics</i> , 2015, 142, 212444.	3.0	21
16	Interplay of Exciton Coupling and Large-Amplitude Motions in the Vibrational Circular Dichroism Spectrum of Dehydroquinidine. <i>Chemistry - A European Journal</i> , 2016, 22, 704-715.	3.3	20
17	Amplification of the linear and nonlinear optical response of a chiral molecular crystal. <i>Journal of Chemical Physics</i> , 2012, 136, 134501.	3.0	18
18	Communication: Structural locking mediated by a water wire: A high-resolution rotational spectroscopy study on hydrated forms of a chiral biphenyl derivative. <i>Journal of Chemical Physics</i> , 2016, 145, 161103.	3.0	18

#	ARTICLE	IF	CITATIONS
19	Elucidating the Structure of Chiral Molecules by using Amplified Vibrational Circular Dichroism: From Theory to Experimental Realization. <i>ChemPhysChem</i> , 2015, 16, 3363-3373.	2.1	17
20	Elucidating the backbone conformation of photoswitchable foldamers using vibrational circular dichroism. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17263.	2.8	16
21	An optically transparent thin-layer electrochemical cell for the study of vibrational circular dichroism of chiral redox-active molecules. <i>Review of Scientific Instruments</i> , 2013, 84, 033103.	1.3	15
22	A salt-bridge structure in solution revealed by 2D-IR spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15784-15786.	2.8	11
23	Wet Sunscreens in the Gas Phase: Structures of Isolated and Microsolvated Oxybenzone. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4963-4968.	4.6	11
24	Water Docking Bias in [4]Helicene. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 11257-11261.	13.8	11
25	Direct Time-Resolved Observation of Conformational Relaxation in Gas-Phase Cold Collisions. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 4957-4961.	13.8	9
26	Coherent Enantiomer-Selective Population Enrichment Using Tailored Microwave Fields. <i>Angewandte Chemie</i> , 2017, 129, 12686-12691.	2.0	9
27	On the Performance of Hybrid Functionals for Non-linear Optical Properties and Electronic Excitations in Chiral Molecular Crystals: The Case of Butterfly-shaped Dicinnamalacetone. <i>ChemPhysChem</i> , 2018, 19, 82-92.	2.1	9
28	Dynamic chiral self-recognition in aromatic dimers of styrene oxide revealed by rotational spectroscopy. <i>Communications Chemistry</i> , 2021, 4, .	4.5	8
29	Propeller-like Conformation of Diphenylacetic Acid. <i>Journal of Chemical Crystallography</i> , 2008, 38, 403-406.	1.1	7
30	Cold Snapshot of a Molecular Rotary Motor Captured by High-Resolution Rotational Spectroscopy. <i>Angewandte Chemie</i> , 2017, 129, 11361-11364.	2.0	6
31	Laboratory blueprints for interstellar searches of aromatic chiral molecules: rotational signatures of styrene oxide. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21474-21487.	2.8	6
32	$\langle i \rangle N \langle /i \rangle, \langle i \rangle N \langle /i \rangle \hat{e}^2, \langle i \rangle N \langle /i \rangle \hat{e}^2 \hat{e}^2$ -Triphenylguanidinium 5-nitro-2,4-dioxo-1,2,3,4-tetrahydropyrimidin-1-ide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o1082-o1083.	0.2	5
33	On the structural intricacies of a metabolic precursor: Direct spectroscopic detection of water-induced conformational reshaping of mevalonolactone. <i>Journal of Chemical Physics</i> , 2017, 147, 124310.	3.0	4
34	Pyromellitic acid \hat{e} -sarcosine (1/2). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2008, 64, o826-o826.	0.2	3
35	A ladder type structure: Rubidium diphenylacetate diphenylacetic acid. <i>Journal of Chemical Crystallography</i> , 2006, 37, 49-53.	1.1	2
36	Elucidating the Structure of Chiral Molecules by using Amplified Vibrational Circular Dichroism: From Theory to Experimental Realization. <i>ChemPhysChem</i> , 2015, 16, 3347-3347.	2.1	1

#	ARTICLE	IF	CITATIONS
37	A new polymorph of 5-nitrouracil monohydrate. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o1091-o1091.	0.2	1
38	Titelbild: Switchable Amplification of Vibrational Circular Dichroism as a Probe of Local Chiral Structure (Angew. Chem. 51/2014). Angewandte Chemie, 2014, 126, 14163-14163.	2.0	0
39	Innentitelbild: Coherent Enantiomerâ€Selective Population Enrichment Using Tailored Microwave Fields (Angew. Chem. 41/2017). Angewandte Chemie, 2017, 129, 12548-12548.	2.0	0
40	Innentitelbild: Cold Snapshot of a Molecular Rotary Motor Captured by Highâ€Resolution Rotational Spectroscopy (Angew. Chem. 37/2017). Angewandte Chemie, 2017, 129, 11102-11102.	2.0	0
41	Water Docking Bias in [4]Helicene. Angewandte Chemie, 2019, 131, 11379-11383.	2.0	0
42	Alkali metal complexes with diphenylacetic acid. Acta Crystallographica Section A: Foundations and Advances, 2009, 65, s101-s101.	0.3	0