

HOT PAPERS IN VCD & ROA

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Structural characterization of a cyclodextrin/l-menthol inclusion complex in the solid-state by solid-state NMR and vibrational circular dichroism
By Sakai, Takahiro; Akagi, Yumiko; Suzuki, Hisashi; Irie, Mitsuki; Nakamura, Tetsuya; Sato, Hisako; Kawamura, Izuru
From Analytical Sciences (2020), 36(11), 1337-1343.
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DOI: 10.2116/analsci.20P120
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Basis set dependence of S=O stretching frequencies and its consequences for IR and VCD spectra predictions
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Vibrational Circular Dichroism study of chiral food additives: g-valero- and g-caprolactone
By Sanchez Valera, M.; Casas Jaraices, R.; Montejo, M.; Rodriguez Ortega, P. G.
From Spectrochimica Acta, Part A: Molecular and Biomolecular Spectroscopy (2021), 247, 119140.
Language:English, Database: CAPLUS,
DOI:10.1016/j.saa.2020.119140
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Monitoring peptide tyrosine nitration by spectroscopic methods
By Niederhafner, Petr; Safarik, Martin; Neburkova, Jitka; Keiderling, Timothy A.; Bour, Petr; Sebestik, Jaroslav
From Amino Acids (2020), Ahead of Print.
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How important are the intermolecular hydrogen bonding interactions in methanol solvent for interpreting the chiroptical properties?
By Polavarapu, Prasad L.; Santoro, Ernesto; Covington, Cody L.; Johnson, Jordan L.; Puente, Andrew R.; Schley, Nathan D.; Kallingathodi, Zabeera; Prakasan, Prasanth C.; Haleema, Simimole; Thomas, Annu Anna; et al
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Assessing cluster models of solvation for the description of vibrational circular dichroism spectra: synergy between static and dynamic approaches
By Le Barbu-Debus, Katia; Bowles, Jessica; Jahnigen, Sascha; Clavaguera, Carine; Calvo, Florent; Vuilleumier,
Rodolphe; Zehnacker, Anne
From Physical Chemistry Chemical Physics (2020), 22(45), 26047-26068.
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Chemical Synthesis of [2H]-Ethyl Tosylate and Exploration of Its Crypto-optically Active Character Combining Complementary Spectroscopic Tools
By Naret, Timothee; Lesot, Philippe; Puente, Andrew R.; Polavarapu, Prasad L.; Buisson, David-Alexandre; Crassous,
Jeanne; Pieters, Gregory; Feuillastre, Sophie
From Organic Letters (2020), 22(22), 8846-8849.
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Isolation, absolute configuration and cytotoxic activities of alkaloids from Hippeastrum goianum (Ravenna)
Meerow (Amaryllidaceae)
By Lianza, Mariacaterina; Verdan, Maria Helena; Paulo de Andrade, Jean; Poli, Ferruccio; de Almeida, Larissa C.; Costa-Lotufo, Leticia V.; Cunha Neto, Alvaro; Oliveira, Sarah C. C.; Bastida, Jaume; Batista, Andrea N. L.; et al
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On Raman optical activity sign-switching between the ground and excited states leading to an unusual resonance ROA induced chirality
By Machalska, Ewa; Zajac, Grzegorz; Baranska, Malgorzata; Kaczorek, Dorota; Kawecki, Robert; Lipinski, Piotr F. J.; Rode, Joanna E.; Dobrowolski, Jan Cz.
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From Journal of Optics (Bristol, United Kingdom) (2020), 22(9), 095401.
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Strongly Enhanced Raman Optical Activity of Chiral Molecules by Vector Exceptional Points
By Hou, Saisai; Wu, Tong; Zhang, Weixuan; Zhang, Xiangdong
From Journal of Physical Chemistry C (2020), 124(45), 24970-24977.
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From Journal of Chemical Physics (2020), 153(16), 164101.
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By Wu, Tao; Li, Guojie; Kapitan, Josef; Kessler, Jiri; Xu, Yunjie; Bour, Petr
From Angewandte Chemie, International Edition (2020), 59(49), 21895-21898.
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Resonance raman optical activity spectroscopy in probing structural changes invisible to circular dichroism spectroscopy: a study on truncated vitamin B12 derivatives
By Machalska, Ewa; Zajac, Grzegorz; Halat, Monika; Wierzba, Aleksandra J.; Gryko, Dorota; Baranska, Malgorzata
From Molecules (2020), 25(19), 4386.
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"Watching" a Molecular Twist in a Protein by Raman Optical Activity
By Matsuo, Junpei; Kikukawa, Takashi; Fujisawa, Tomotsumi; Hoff, Wouter D.; Unno, Masashi
From Journal of Physical Chemistry Letters (2020), 11(20), 8579-8584.
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From Chemical Physics Letters (2020), 755, 137798.
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Vibrational optical activity for structural characterization of natural products
By Polavarapu, Prasad L.; Santoro, Ernesto
From Natural Product Reports (2020), 37(12), 1661-1699.
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By Machalska, Ewa; Zajac, Grzegorz; Gruca, Anna; Zobi, Fabio; Baranska, Malgorzata; Kaczor, Agnieszka
From Journal of Physical Chemistry Letters (2020), 11(13), 5037-5043.
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From ChemPhysChem (2020), 21(12), 1272-1279.
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By Palomo, Luis; Rodriguez, Rafael; Medina, Samara; Quinoa, Emilio; Casado, Juan; Freire, Felix; Ramirez, Francisco J.
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By Hisako Sato*, Masaru Shimizu, Keisuke Watanabe, Jun Yoshida, Izuru Kawamura, and Jun Koshoubu*
From *Anal. Chem.* 2021 January 28, 2021
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