

# Laurence A Nafie

## List of Publications by Citations

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280  
papers

10,460  
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86  
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302  
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11,072  
ext. citations

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L-index

#	Paper	IF	Citations
280	Absolute configuration determination of chiral molecules in the solution state using vibrational circular dichroism. <i>Chirality</i> , <b>2003</b> , 15, 743-58	2.1	445
279	<b>2011</b> ,		393
278	Vibrational circular dichroism. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 2715-2723	16.4	341
277	Infrared and Raman vibrational optical activity: theoretical and experimental aspects. <i>Annual Review of Physical Chemistry</i> , <b>1997</b> , 48, 357-86	15.7	272
276	Determination of absolute configuration of chiral molecules using vibrational optical activity: a review. <i>Applied Spectroscopy</i> , <b>2011</b> , 65, 699-723	3.1	221
275	Reorientation and Vibrational Relaxation as Line Broadening Factors in Vibrational Spectroscopy. <i>Journal of Chemical Physics</i> , <b>1972</b> , 57, 3145-3155	3.9	212
274	Tripeptides adopt stable structures in water. A combined polarized visible Raman, FTIR, and VCD spectroscopy study. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 14330-41	16.4	189
273	A confidence level algorithm for the determination of absolute configuration using vibrational circular dichroism or Raman optical activity. <i>ChemPhysChem</i> , <b>2011</b> , 12, 1542-9	3.2	156
272	Quantum Theory of the Intensities of Molecular Vibrational Spectra. <i>Journal of Chemical Physics</i> , <b>1970</b> , 52, 1576-1584	3.9	153
271	Vibronic coupling theory of infrared vibrational transitions. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 7108-7116	3.6	135
270	Vibrational circular dichroism of 2,2,2-trifluoro-1-phenylethanol. <i>Journal of the American Chemical Society</i> , <b>1975</b> , 97, 3842-3843	16.4	132
269	Vibrational circular dichroism shows unusual sensitivity to protein fibril formation and development in solution. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 12364-5	16.4	126
268	Dual Polarization Modulation: A Real-Time, Spectral-Multiplex Separation of Circular Dichroism from Linear Birefringence Spectral Intensities. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1634-1645	3.1	121
267	Theory of resonance Raman optical activity: the single electronic state limit. <i>Chemical Physics</i> , <b>1996</b> , 205, 309-322	2.3	116
266	The conformation of tetraalanine in water determined by polarized Raman, FT-IR, and VCD spectroscopy. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 2768-76	16.4	115
265	Direct observation and pH control of reversed supramolecular chirality in insulin fibrils by vibrational circular dichroism. <i>Chemical Communications</i> , <b>2010</b> , 46, 7154-6	5.8	109
264	Role of hydration in determining the structure and vibrational spectra of L-alanine and N-acetyl L-alanine N <sup>2</sup> -methylamide in aqueous solution: a combined theoretical and experimental approach. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 119, 191-210	1.9	109

263	Vibrational circular dichroism in amino acids and peptides. 4. Vibrational analysis, assignments, and solution-phase Raman spectra of deuterated isotopomers of alanine. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 3329-3336	16.4	109
262	Fourier transform infrared vibrational circular dichroism. <i>Journal of the American Chemical Society</i> , <b>1979</b> , 101, 496-498	16.4	108
261	Preferred peptide backbone conformations in the unfolded state revealed by the structure analysis of alanine-based (AXA) tripeptides in aqueous solution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 10054-9	11.5	106
260	Vibrational circular dichroism spectra of three conformationally distinct states and an unordered state of poly(L-lysine) in deuterated aqueous solution. <i>Biopolymers</i> , <b>1986</b> , 25, 1751-65	2.2	105
259	Is supramolecular filament chirality the underlying cause of major morphology differences in amyloid fibrils?. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 2302-12	16.4	103
258	Adiabatic molecular properties beyond the Born-Oppenheimer approximation. Complete adiabatic wave functions and vibrationally induced electronic current density. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 4950-4957	3.9	100
257	Ab initio VCD calculation of a transition-metal containing molecule and a new intensity enhancement mechanism for VCD. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 11320-1	16.4	96
256	Theory of High Frequency Differential Interferometry: Application to the Measurement of Infrared Circular and Linear Dichroism via Fourier Transform Spectroscopy. <i>Applied Spectroscopy</i> , <b>1979</b> , 33, 130-135 <sup>1</sup>	3.1	95
255	The Structure of Alanine Based Tripeptides in Water and Dimethyl Sulfoxide Probed by Vibrational Spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 358-365	3.4	87
254	Vibrational Optical Activity. <i>Applied Spectroscopy</i> , <b>1996</b> , 50, 14A-26A	3.1	86
253	Polarized laser Raman studies of biological polymers. <i>Journal of Chemical Physics</i> , <b>1969</b> , 51, 3993-4005	3.9	86
252	Chirality and diastereoselection of $\Delta$ -configured tetrahedral zinc complexes through enantiopure Schiff base complexes: combined vibrational circular dichroism, density functional theory, <sup>1</sup> H NMR, and X-ray structural studies. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 11363-74	5.1	80
251	Experimental observation of resonance Raman optical activity. <i>Chemical Physics Letters</i> , <b>1998</b> , 287, 359-364	3.4	78
250	Optical activity in vibrational transitions: vibrational circular dichroism and Raman optical activity. <i>Accounts of Chemical Research</i> , <b>1979</b> , 12, 296-302	24.3	75
249	Dual circular polarization raman optical activity. <i>Chemical Physics Letters</i> , <b>1989</b> , 154, 260-266	2.5	73
248	Normal and reversed supramolecular chirality of insulin fibrils probed by vibrational circular dichroism at the protofilament level of fibril structure. <i>Biophysical Journal</i> , <b>2012</b> , 103, 522-531	2.9	72
247	Theory of Vibrational Circular Dichroism and Infrared Absorption: Extension to Molecules with Low-Lying Excited Electronic States. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 7222-7231	2.8	72
246	Theory of natural Raman optical activity. <i>Molecular Physics</i> , <b>1991</b> , 72, 441-469	1.7	70

- 245 Spontaneous inter-conversion of insulin fibril chirality. *Chemical Communications*, **2012**, 48, 2837-9 5.8 69
- 244 A combined theoretical and experimental study of the structure and vibrational absorption, vibrational circular dichroism, Raman and Raman optical activity spectra of the L-histidine zwitterion. *Theoretical Chemistry Accounts*, **2008**, 119, 155-176 1.9 68
- 243 Scattered circular polarization Raman optical activity. *Chemical Physics Letters*, **1988**, 149, 367-374 2.5 68
- 242 Density Functional Theory Calculations of Vibrational Circular Dichroism in Transition Metal Complexes: Identification of Solution Conformations and Mode of Chloride Ion Association for (+)-Tris(ethylenediaminato)cobalt(III). *Journal of Physical Chemistry A*, **2002**, 106, 3560-3565 2.8 67
- 241 Vibrational circular dichroism in amino acids and peptides. 7. Amide stretching vibrations in polypeptides. *Biopolymers*, **1982**, 21, 2161-83 2.2 67
- 240 Tripeptides with ionizable side chains adopt a perturbed polyproline II structure in water. *Biochemistry*, **2004**, 43, 613-21 3.2 65
- 239 Role of Solvent and Secondary Doping in Polyaniline Films Doped with Chiral Camphorsulfonic Acid: Preparation of a Chiral Metal. *Chemistry of Materials*, **2002**, 14, 1430-1438 9.6 63
- 238 Stereochemical determination and bioactivity assessment of (S)-(+)-curcuphenol dimers isolated from the marine sponge *Didiscus aceratus* and synthesized through laccase biocatalysis. *Bioorganic and Medicinal Chemistry*, **2005**, 13, 5600-12 3.4 63
- 237 On the origin of the intensity of the resonant raman bands of differing polarization in heme proteins. *Chemical Physics Letters*, **1973**, 20, 563-568 2.5 63
- 236 Optically Active Nanostructured ZnO Films. *Angewandte Chemie - International Edition*, **2015**, 54, 15170-15174 5.6.4 62
- 235 Experimental Measurement and Ab Initio Calculation of Raman Optical Activity of L-Alanine and Its Deuterated Isotopomers. *The Journal of Physical Chemistry*, **1995**, 99, 835-843 62
- 234 Dual and incident circular polarization Raman optical activity backscattering of (1R)-trans-pinane. *Chemical Physics Letters*, **1991**, 180, 182-190 2.5 59
- 233 Direct observation of odd-even effect for chiral alkyl alcohols in solution using vibrational circular dichroism spectroscopy. *Journal of the American Chemical Society*, **2004**, 126, 194-8 16.4 58
- 232 Determination of the absolute configuration and solution conformation of gossypol by vibrational circular dichroism. *Chirality*, **2003**, 15, 196-200 2.1 58
- 231 Vibrational optical activity of oligopeptides. *Biopolymers*, **1995**, 37, 265-79 2.2 57
- 230 Vibrational circular dichroism in transition-metal complexes. 2. Ion association, ring conformation, and ring currents of ethylenediamine ligands. *Journal of the American Chemical Society*, **1986**, 108, 7255-7263 16.4 56
- 229 Vibrational circular dichroism in the mid-infrared using fourier transform spectroscopy. *Chemical Physics Letters*, **1982**, 90, 1-5 2.5 54
- 228 Determination of enantiomeric excess in samples of chiral molecules using fourier transform vibrational circular dichroism spectroscopy: simulation of real-time reaction monitoring. *Analytical Chemistry*, **2004**, 76, 6956-66 7.8 52

227	Time ordered diagrams for the resonant raman effect from molecular vibrations. <i>Chemical Physics Letters</i> , <b>1971</b> , 12, 131-136	2.5	52
226	Complete polarization measurements for non-symmetric Raman tensors: Symmetry assignments of ferrocyanine C vibrations. <i>Journal of Raman Spectroscopy</i> , <b>1973</b> , 1, 455-464	2.3	51
225	Absolute configuration reassignment of two chromanes from <i>Peperomia obtusifolia</i> (Piperaceae) using VCD and DFT calculations. <i>Tetrahedron: Asymmetry</i> , <b>2010</b> , 21, 2402-2407		49
224	Electron Transition Current Density in Molecules. 1. Non-Born-Oppenheimer Theory of Vibronic and Vibrational Transitions. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 7826-7833	2.8	49
223	Fourier transform vibrational circular dichroism from 800 to 10,000 cm <sup>-1</sup> : Near-IR-VCD spectral standards for terpenes and related molecules. <i>Vibrational Spectroscopy</i> , <b>2006</b> , 42, 254-272	2.1	49
222	Vibrational circular-dichroism spectroscopy of homologous cyclic peptides designed to fold into $\alpha$ helices of opposite chirality. <i>Biointerphases</i> , <b>2011</b> , 6, 1-7	1.8	48
221	Vibrational circular dichroism in amino acids and peptides. 3. Solution- and solid-phase spectra of alanine and serine. <i>Journal of the American Chemical Society</i> , <b>1979</b> , 101, 6829-6837	16.4	48
220	The atom dipole interaction model of Raman optical activity: Reformulation and comparison to the general two-group model. <i>Journal of Chemical Physics</i> , <b>1979</b> , 70, 5582-5588	3.9	48
219	Determination of Absolute Configuration in Molecules with Chiral Axes by Vibrational Circular Dichroism: A C <sub>2</sub> -Symmetric Annelated Heptathiophene and a D <sub>2</sub> -Symmetric Dimer of 1,1'-Binaphthyl. <i>Journal of Physical Chemistry A</i> , <b>2003</b> , 107, 7692-7696	2.8	47
218	Vibrational circular dichroism: an incisive tool for stereochemical applications. <i>Enantiomer</i> , <b>1998</b> , 3, 283-97		47
217	Amplified vibrational circular dichroism as a probe of local biomolecular structure. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 3530-5	16.4	46
216	Chlorofluoroiodomethane as a potential candidate for parity violation measurements. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 79-92	3.6	46
215	Linear polarization Raman optical activity: a new form of natural optical activity. <i>Chemical Physics Letters</i> , <b>1990</b> , 174, 575-582	2.5	46
214	Theory of Raman scattering and Raman optical activity: near resonance theory and levels of approximation. <i>Theoretical Chemistry Accounts</i> , <b>2008</b> , 119, 39-55	1.9	45
213	VCD to determine absolute configuration of natural product molecules: secolignans from <i>Peperomia blanda</i> . <i>Organic and Biomolecular Chemistry</i> , <b>2012</b> , 10, 4208-14	3.9	44
212	Vibrational circular dichroism theory: a localized molecular orbital model. <i>Chemical Physics Letters</i> , <b>1977</b> , 49, 441-446	2.5	44
211	Infrared absorption and the Born-Oppenheimer approximation. II. Vibrational circular dichroism. <i>Journal of Chemical Physics</i> , <b>1977</b> , 67, 1501-1510	3.9	43
210	Fourier Transform Infrared Vibrational Circular Dichroism: Improvements in Methodology and Mid-Infrared Spectral Results. <i>Applied Spectroscopy</i> , <b>1984</b> , 38, 20-26	3.1	42

209	Absolute configuration and selective trypanocidal activity of gaudichaudianic acid enantiomers. <i>Journal of Natural Products</i> , <b>2011</b> , 74, 1154-60	4.9	41
208	Dual source fourier transform polarization modulation spectroscopy: an improved method for the measurement of circular and linear dichroism. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 647-54	3.1	41
207	Comparison of IR and Raman forms of vibrational optical activity. <i>Faraday Discussions</i> , <b>1994</b> , 13-34; discussion 87-101	3.6	41
206	Velocity-gauge formalism in the theory of vibrational circular dichroism and infrared absorption. <i>Journal of Chemical Physics</i> , <b>1992</b> , 96, 5687-5702	3.9	41
205	Vibrational circular dichroism in the methine bending modes of amino acids and dipeptides. <i>Journal of the American Chemical Society</i> , <b>1988</b> , 110, 6970-6974	16.4	41
204	Enhanced vibrational circular dichroism via vibrationally generated electronic ring currents. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 6213-6222	16.4	41
203	Ring current mechanism of vibrational circular dichroism. <i>The Journal of Physical Chemistry</i> , <b>1986</b> , 90, 763-767		40
202	Racemization and geometrical isomerization of (2S,3S)-cyclopropane-1- <sup>13</sup> C-1,2,3-d <sub>3</sub> at 407 .degree.C: kinetically competitive one-center and two-center thermal epimerizations in an isotopically substituted cyclopropane. <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 1864-1866	16.4	39
201	Solvation-induced helicity inversion of pseudotetrahedral chiral copper(II) complexes. <i>Inorganic Chemistry</i> , <b>2015</b> , 54, 2193-203	5.1	38
200	Vibrational circular dichroism of amylose carbamate: structure and solvent-induced conformational changes. <i>Tetrahedron: Asymmetry</i> , <b>2008</b> , 19, 2111-2114		38
199	The structure of tri-proline in water probed by polarized Raman, Fourier transform infrared, vibrational circular dichroism, and electric ultraviolet circular dichroism spectroscopy. <i>Biopolymers</i> , <b>2003</b> , 71, 558-68	2.2	38
198	Vibrational circular dichroism in amino acids and peptides. 8. A chirality rule for methine C*.alpha.-H stretching modes. <i>Journal of the American Chemical Society</i> , <b>1983</b> , 105, 7449-7450	16.4	38
197	Ring current enhanced vibrational circular dichroism in the carbon-hydrogen bond stretching motions of sugars. <i>Journal of the American Chemical Society</i> , <b>1986</b> , 108, 1389-1397	16.4	38
196	Vibrational circular dichroism in amino acids and peptides. 2. Simple alanyl peptides. <i>Journal of the American Chemical Society</i> , <b>1978</b> , 100, 5644-5650	16.4	38
195	Preparation of cruciferous phytoalexin related metabolites, (1R)-dioxibrassinin and (1R)-3-cyanomethyl-3-hydroxyoxindole, and determination of their absolute configurations by vibrational circular dichroism (VCD). <i>Tetrahedron Letters</i> , <b>2003</b> , 44, 6017-6020	2	37
194	Extension of fourier transform vibrational circular dichroism into the near-infrared region: continuous spectral coverage from 800 to 10 000 cm <sup>-1</sup> . <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 1057-64	3.1	37
193	Hydrogen Stretching Vibrational Circular Dichroism in Methyl Lactate and Related Molecules. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 1523-1537	2.8	37
192	Simultaneous resonance Raman optical activity involving two electronic states. <i>Journal of Physical Chemistry A</i> , <b>2012</b> , 116, 7329-36	2.8	36

191	Resonance raman studies of macrocyclic complexes. 2. Antiresonance and selective intensity enhancement in synthetic metal(II) porphyrin analogues. <i>Journal of the American Chemical Society</i> , <b>1976</b> , 98, 8007-14	16.4	36
190	Structure elucidation and absolute stereochemistry of isomeric monoterpene chromane esters. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 2603-12	4.2	35
189	Infrared absorption and the Born-Oppenheimer approximation. I. Vibrational intensity expressions. <i>Journal of Chemical Physics</i> , <b>1977</b> , 67, 1491-1500	3.9	34
188	Electron Transition Current Density in Molecules. 3. Ab Initio Calculations for Vibrational Transitions in Ethylene and Formaldehyde. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 10620-10626	16.4	33
187	Electron Transition Current Density in Molecules. 2. Ab Initio Calculations for Electronic Transitions in Ethylene and Formaldehyde. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 3352-3357	2.8	32
186	Synthesis and gas-phase vibrational circular dichroism of (+)-(S,S)-cyclopropane-1,2-d <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>1989</b> , 111, 1913-1915	16.4	31
185	Optical activity arising from carbon-13 substitution: vibrational circular dichroism study of (2S,3S)-cyclopropane-1- <sup>13</sup> C,2H-2,3- <sup>2</sup> H <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>1991</b> , 113, 8298-8305	16.4	31
184	A New Scattered Circular Polarization Raman Optical Activity Instrument Equipped with a Charge-Coupled-Device Detector. <i>Applied Spectroscopy</i> , <b>1991</b> , 45, 18-25	3.1	31
183	Vibrational circular dichroism in the carbon-hydrogen and carbon-deuterium stretching modes of (S,S)-[2,3- <sup>2</sup> H <sub>2</sub> ]oxirane. <i>Journal of the American Chemical Society</i> , <b>1987</b> , 109, 4727-4728	16.4	31
182	erythro-1-Naphthyl-1-(2-piperidyl)methanol: synthesis, resolution, NMR relative configuration, and VCD absolute configuration. <i>Journal of Organic Chemistry</i> , <b>2003</b> , 68, 7308-15	4.2	30
181	Vibrational optical activity: Comparison of theoretical and experimental results for (+)-(3R)-methylcyclohexanone. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 1567-1575	3.9	30
180	Vibrational optical activity: From discovery and development to future challenges. <i>Chirality</i> , <b>2020</b> , 32, 667-692	2.1	29
179	Improved backscattering dual circular polarization raman optical activity spectrometer with enhanced performance for biomolecular applications. <i>Journal of Raman Spectroscopy</i> , <b>1997</b> , 28, 627-633	2.3	29
178	Quantitative Comparison of Experimental Infrared and Raman Optical Activity Spectra. <i>Applied Spectroscopy</i> , <b>1996</b> , 50, 649-657	3.1	29
177	Selective examination of heme protein azide ligand-distal globin interactions by vibrational circular dichroism. <i>Journal of the American Chemical Society</i> , <b>1992</b> , 114, 6864-6867	16.4	29
176	Vibrational circular dichroism of (S,S)-[2,3- <sup>2</sup> H <sub>2</sub> ]oxirane in the gas phase and in solution. <i>Canadian Journal of Chemistry</i> , <b>1991</b> , 69, 1619-1629	0.9	29
175	Vibrational circular dichroism in amino acids and peptides. 1. Alanine. <i>Journal of the American Chemical Society</i> , <b>1977</b> , 99, 8103-8104	16.4	29
174	Supramolecular chirality in peptide microcrystals. <i>Chemical Communications</i> , <b>2015</b> , 51, 89-92	5.8	28

173	Observation of resonance electronic and non-resonance-enhanced vibrational natural Raman optical activity. <i>Journal of Raman Spectroscopy</i> , <b>2010</b> , 41, 1563-1565	2.3	28
172	Synthesis and vibrational circular dichroism of enantiopure chiral oxorhenium(V) complexes containing the hydrotris(1-pyrazolyl)borate ligand. <i>Inorganic Chemistry</i> , <b>2006</b> , 45, 10230-9	5.1	28
171	Isolation of preresonance and out-of-phase dual circular polarization Raman optical activity. <i>Chemical Physics Letters</i> , <b>1994</b> , 222, 403-410	2.5	28
170	Isolation of Raman optical activity invariants. <i>Chemical Physics Letters</i> , <b>1992</b> , 189, 35-42	2.5	28
169	Vibrational circular dichroism in amino acids and peptides. 5. Carbon-hydrogen, stretching vibrational circular dichroism and fixed partial charge calculations for deuterated isotopomers of alanine. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 3336-3342	16.4	28
168	Levels of supramolecular chirality of polyglutamine aggregates revealed by vibrational circular dichroism. <i>FEBS Letters</i> , <b>2013</b> , 587, 1638-43	3.8	27
167	Localized molecular orbital calculations of vibrational circular dichroism. I. General theoretical formalism and CNDO results for the carbon-deuterium stretching vibration in neopentyl-1-d-chloride. <i>Journal of Chemical Physics</i> , <b>1981</b> , 75, 2935-2944	3.9	27
166	Calculation of excitation profiles from the vibronic theory of raman scattering. <i>Chemical Physics</i> , <b>1977</b> , 19, 303-311	2.3	27
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164	Observation and calculation of vibrational circular birefringence: a new form of vibrational optical activity. <i>Chirality</i> , <b>2009</b> , 21 Suppl 1, E277-86	2.1	26
163	Comparison of Step-Scan and Rapid-Scan Approaches to the Measurement of Mid-Infrared Fourier Transform Vibrational Circular Dichroism. <i>Applied Spectroscopy</i> , <b>1997</b> , 51, 504-507	3.1	26
162	Structure and absolute configuration of nyasol and hinokiresinol via synthesis and vibrational circular dichroism spectroscopy. <i>Journal of Natural Products</i> , <b>2005</b> , 68, 1603-9	4.9	26
161	Determination of the absolute configuration and solution conformation of the antifungal agents ketoconazole, itraconazole, and miconazole with vibrational circular dichroism. <i>Chirality</i> , <b>2005</b> , 17 Suppl, S101-8	2.1	26
160	Vibrational circular dichroism in amino acids and peptides. 10. Fourier transform VCD and Fourier self-deconvolution of the amide I region of poly( $\gamma$ -benzyl-L-glutamate). <i>Biopolymers</i> , <b>1985</b> , 24, 799-812	2.2	26
159	Vibrational circular dichroism in bis(acetylacetonato)(L-alaninato)cobalt(III). Isolated occurrences of the coupled oscillator and ring current intensity mechanisms. <i>Journal of the American Chemical Society</i> , <b>1985</b> , 107, 6205-6213	16.4	26
158	Simultaneous acquisition of all four forms of circular polarization Raman optical activity: results for $\beta$ -pinene and lysozyme. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 89-94	2.3	25
157	Step-Scan Fourier Transform Vibrational Circular Dichroism Measurements in the Vibrational Region above 2000 $\text{cm}^{-1}$ . <i>Applied Spectroscopy</i> , <b>1997</b> , 51, 508-511	3.1	25
156	(R)-(+)- and (S)-(-)-1-(9-Phenanthryl)ethylamine: Assignment of Absolute Configuration by CD Tweezer and VCD Methods, and Difficulties Encountered with the CD Exciton Chirality Method. <i>European Journal of Organic Chemistry</i> , <b>2002</b> , 2002, 1788-1796	3.2	25



155	Observation of Fourier transform near-infrared vibrational circular dichroism to 6150 cm <sup>-1</sup> . <i>Applied Spectroscopy</i> , <b>2003</b> , 57, 1245-9	3.1	25
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153	Vibrational optical activity in perturbed degenerate modes: Concepts and model calculations in 1-substituted haloethanes. <i>Journal of Chemical Physics</i> , <b>1980</b> , 73, 3530-3540	3.9	25
152	Vibrational circular dichroism in amino acids and peptides. 6. Localized molecular orbital calculations of the carbon-hydrogen stretching vibrational circular dichroism in deuterated isotopomers of alanine. <i>Journal of the American Chemical Society</i> , <b>1982</b> , 104, 3343-3349	16.4	25
151	Albendazole sulfoxide enantiomers: preparative chiral separation and absolute stereochemistry. <i>Journal of Chromatography A</i> , <b>2012</b> , 1230, 61-5	4.5	24
150	Vibrational circular dichroism analysis reveals a conformational change of the baccatin III ring of paclitaxel: visualization of conformations using a new code for structure-activity relationships. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 2367-72	4.2	24
149	Determination of the Absolute Configuration of (R)-Mirtazapine by Vibrational Circular Dichroism. <i>Helvetica Chimica Acta</i> , <b>2002</b> , 85, 1160	2	24
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