

# Raul G Enriquez

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Choosing the Best Pulse Sequences, Acquisition Parameters, Postacquisition Processing Strategies, and Probes for Natural Product Structure Elucidation by NMR Spectroscopy. <i>Journal of Natural Products</i> , 2002, 65, 221-244.	3.0	166
2	Total assignment of <sup>13</sup> C and <sup>1</sup> H spectra of three isomeric triterpenol derivatives by 2D NMR: an investigation of the potential utility of <sup>1</sup> H chemical shifts in structural investigations of complex natural products. <i>Tetrahedron</i> , 1986, 42, 3419-3428.	1.9	157
3	Improved <sup>13</sup> C- <sup>1</sup> H shift correlation spectra for indirectly bonded carbons and hydrogens: The FLOCK sequence. <i>Magnetic Resonance in Chemistry</i> , 1989, 27, 162-169.	1.9	126
4	Assignment of <sup>1</sup> H and <sup>13</sup> C spectra and investigation of hindered side-chain rotation in lupeol derivatives. <i>Magnetic Resonance in Chemistry</i> , 2000, 38, 488-493.	1.9	84
5	Total assignment of <sup>1</sup> H and <sup>13</sup> C spectra of kauradien-9(11),16-oic acid with the aid of heteronuclear correlated 2D spectra optimized for geminal and vicinal <sup>13</sup> C- <sup>1</sup> H coupling constants: or what to do when "INADEQUATE" is impossible. <i>Canadian Journal of Chemistry</i> , 1984, 62, 2421-2425.	1.1	73
6	Comparison of <sup>13</sup> C Resolution and Sensitivity of HSQC and HMQC Sequences and Application of HSQC-Based Sequences to the Total <sup>1</sup> H and <sup>13</sup> C Spectral Assignment of Clonasterol. <i>Magnetic Resonance in Chemistry</i> , 1997, 35, 455-462.	1.9	60
7	Hypotensive and vasorelaxant effects of the procyanidin fraction from <i>Guazuma ulmifolia</i> bark in normotensive and hypertensive rats. <i>Journal of Ethnopharmacology</i> , 2008, 117, 58-68.	4.1	52
8	<sup>1</sup> H and <sup>13</sup> C NMR characterization of new cycloartane triterpenes from <i>Mangifera indica</i> . <i>Magnetic Resonance in Chemistry</i> , 2012, 50, 52-57.	1.9	51
9	Investigation of the Advantages and Limitations of Forward Linear Prediction for Processing 2D Data Sets. <i>Magnetic Resonance in Chemistry</i> , 1997, 35, 505-519.	1.9	50
10	The zoapatle V " The effect of kauradienoic acid upon uterine contractility. <i>Contraception</i> , 1983, 27, 267-279.	1.5	34
11	Characterization, by two-dimensional NMR spectroscopy, of a complex tetrasaccharide glycoside isolated from <i>Ipomoea</i> sp. <i>Canadian Journal of Chemistry</i> , 1992, 70, 1000-1008.	1.1	32
12	The zoapatle III " Biological and uterotonic properties of aqueous plant extract. <i>Contraception</i> , 1983, 27, 239-253.	1.5	31
13	<sup>13</sup> C- <sup>1</sup> H shift correlation with full <sup>1</sup> H- <sup>1</sup> H decoupling. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 358-361.	1.9	31
14	Synthesis, cytotoxic and antioxidant evaluations of amino derivatives from perezone. <i>Bioorganic and Medicinal Chemistry</i> , 2012, 20, 5077-5084.	3.0	30
15	Synthesis of Curcuminoids and Evaluation of Their Cytotoxic and Antioxidant Properties. <i>Molecules</i> , 2017, 22, 633.	3.8	28
16	<sup>13</sup> C- <sup>1</sup> H shift correlation with full <sup>1</sup> H- <sup>1</sup> H decoupling. "Further significant improvements in resolution and sensitivity. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 1068-1074.	1.9	25
17	Pharmacology of <i>Casimiroa edulis</i> ; III. Relaxant and contractile effects in rat aortic rings. <i>Journal of Ethnopharmacology</i> , 1995, 47, 1-8.	4.1	25
18	Oxidation of chiral non-racemic pyridinium salts to enantiopure 2-pyridone and 3-alkyl-2-pyridones. <i>Tetrahedron: Asymmetry</i> , 1998, 9, 2027-2029.	1.8	24

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19	Gradient-selected versus phase-cycled HMBC and HSQC: pros and cons. <i>Magnetic Resonance in Chemistry</i> , 2001, 39, 531-538.	1.9	24
20	Full Structural Characterization of Homoleptic Complexes of Diacetylcurcumin with Mg, Zn, Cu, and Mn: Cisplatin-level Cytotoxicity in Vitro with Minimal Acute Toxicity in Vivo. <i>Molecules</i> , 2019, 24, 1598.	3.8	24
21	A pulse sequence which provides rapid, routine $^1\text{H}$ - $^{13}\text{C}$ shift-correlated spectra. <i>Journal of Magnetic Resonance</i> , 1985, 64, 304-311.	0.5	23
22	Isomerization of Perezone into Isoperezone and Preparation of Dihydroisoperezinone. <i>Natural Product Research</i> , 1994, 4, 133-139.	0.4	22
23	Isolation and Characterization of Cytotoxic and Antibacterial Tetrasaccharide Glycosides from <i>Ipomoea stans</i> . <i>Journal of Natural Products</i> , 1995, 58, 1730-1734.	3.0	22
24	High-performance liquid chromatographic study of <i>casimiroa edulis</i> . <i>Journal of Chromatography A</i> , 1983, 281, 245-251.	3.7	20
25	High-performance liquid chromatographic study of <i>Casimiroa edulis</i> . <i>Journal of Chromatography A</i> , 1984, 287, 209-214.	3.7	20
26	Dehydroleucodine, a Sesquiterpene Lactone from <i>Gynoxys verrucosa</i> , Demonstrates Cytotoxic Activity against Human Leukemia Cells. <i>Journal of Natural Products</i> , 2016, 79, 691-696.	3.0	20
27	Total assignment of the $^{13}\text{C}$ spectrum of taraxasteryl acetate by $^{13}\text{C}$ - $^{13}\text{C}$ connectivity experiments and determination of the stereochemistry of taraxasterol by X-ray diffraction. <i>Canadian Journal of Chemistry</i> , 1985, 63, 1048-1054.	1.1	19
28	Isolation and Characterization of Five New Tetrasaccharide Glycosides from the Roots of <i>Ipomoea stans</i> and Their Cytotoxic Activity. <i>Journal of Natural Products</i> , 2004, 67, 1552-1556.	3.0	19
29	Determination of grandiflorenic acid in organic and aqueous extracts of <i>Montanoa tomentosa</i> (zoapatle) by reversed-phase high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1983, 258, 297-301.	3.7	18
30	Optimization of sensitivity for two-dimensional shift-correlated spectra involving indirectly bonded carbons and hydrogens (INCH). <i>Journal of Magnetic Resonance</i> , 1987, 75, 414-426.	0.5	18
31	Comparison of crystal and solution structures and $^1\text{H}$ and $^{13}\text{C}$ chemical shifts for grandiflorenic acid, kaurenoic acid, and monoginoic acid. <i>Canadian Journal of Chemistry</i> , 1997, 75, 342-347.	1.1	18
32	Synthesis of (2R,3S)- $(\hat{\alpha})$ -2-phenyl-3-methylaziridine. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 2877-2879.	1.8	18
33	Investigating the Sensitivity Limits of $^{13}\text{C}$ -Detected $^1\text{H}$ - $^{13}\text{C}$ Chemical Shift Correlation Sequences with Modern Microprobe and Microtube Technology. <i>Magnetic Resonance in Chemistry</i> , 1997, 35, 614-618.	1.9	18
34	The signal/noise of an HMBC spectrum can depend dramatically upon the choice of acquisition and processing parameters. <i>Magnetic Resonance in Chemistry</i> , 2009, 47, 1086-1094.	1.9	17
35	Pentasaccharide Glycosides from the Roots of <i>Ipomoea murucoides</i> . <i>Journal of Natural Products</i> , 2005, 68, 1141-1146.	3.0	16
36	The in vitro effect of grandiflorenic acid and zoapatle aqueous crude extract upon spontaneous contractility of the rat uterus during oestrus cycle. <i>Journal of Ethnopharmacology</i> , 1984, 11, 87-97.	4.1	15

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37	Resin glycosides from <i>Ipomoea tyrianthina</i> and their sedative and vasorelaxant effects. <i>Journal of Natural Medicines</i> , 2014, 68, 655-667.	2.3	15
38	The advantages of forward linear prediction over multiple aliasing for obtaining high-resolution HSQC spectra in systems with extreme spectral crowding. <i>Magnetic Resonance in Chemistry</i> , 2003, 41, 927-932.	1.9	14
39	Efficient preparation of (1 <i>R</i> )-(1 <i>S</i> )-2-hydroxy-1-phenylethyl)piperidin-2-one: synthesis of (2 <i>S</i> ,3 <i>R</i> )-(+)-stenusine. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 949-952.	1.8	14
40	A New Family of Homoleptic Copper Complexes of Curcuminoids: Synthesis, Characterization and Biological Properties. <i>Molecules</i> , 2019, 24, 910.	3.8	14
41	A Short Synthesis of Indolizidine (+)-209B from (3 <i>R</i> ,6 <i>S</i> ,8 <i>A</i> S)-(-)-6-Methyl-3-phenyl-hexahydrooxazolo[3,2- <i>a</i> ]pyridin-5-one. <i>Heterocycles</i> , 2009, 78, 2589.	0.7	12
42	Investigation of the effect of ring size on the product distribution for the Schiff base reaction of 2-acetylcycloalkanones with diamino alkanes. <i>Canadian Journal of Chemistry</i> , 1995, 73, 16-21.	1.1	11
43	Synthesis of $\pm$ -phenyl-1-( <i>R</i> )-piperidineacetic esters. <i>Tetrahedron: Asymmetry</i> , 1997, 8, 203-206.	1.8	11
44	New methodology for the synthesis of enantiopure (3 <i>R</i> ,2 <i>aR</i> )-3-phenyl-hexahydro-oxazolo[3,2- <i>a</i> ]pyridin-5-one: a synthesis of (S)-(+)-coniine. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 357-360.	1.8	11
45	The zoapatle II " Botanical and ecological determinants. <i>Contraception</i> , 1983, 27, 227-237.	1.5	10
46	Further improvements in the flock sequence. <i>Magnetic Resonance in Chemistry</i> , 1992, 30, S35-S41.	1.9	10
47	Isolation and identification by 2D NMR of two new complex saponins from <i>Michroseechium helleri</i> . <i>Magnetic Resonance in Chemistry</i> , 1998, 36, S111-S117.	1.9	10
48	The Unambiguous Detection of Kaurenic Derivatives in Aqueous Infusions of <i>Montanoa tomentosaby</i> GC-MS and 2D-NMR Spectroscopy: An Answer to Contradictory Reports. <i>Planta Medica</i> , 1996, 62, 569-571.	1.3	9
49	Synthesis and Structure of New Heterocyclic Derivatives of Curcumin. <i>Heterocycles</i> , 2005, 65, 49.	0.7	9
50	The zoapatle IV " Toxicological and clinical studies. <i>Contraception</i> , 1983, 27, 255-265.	1.5	8
51	Acetate Bridged Trinuclear Zn, Ca and Mg Metal Complexes with 2- and 4-Substituted Pyridines. <i>Journal of Chemical Crystallography</i> , 2012, 42, 794-802.	1.1	8
52	Evaluation of pulse sequences combining <sup>13</sup> C- <sup>1</sup> H shift correlation and heteronuclear J spectroscopy with full <sup>1</sup> H- <sup>1</sup> H decoupling. <i>Magnetic Resonance in Chemistry</i> , 1988, 26, 881-887.	1.9	7
53	Unexpected retro-Michael reaction of (1 <i>S</i> )-(1 <i>S</i> ,4 <i>aS</i> ,8 <i>aR</i> )- and (+)-(1 <i>S</i> ,4 <i>aR</i> ,8 <i>aS</i> )-4a-ethyl-1-(1-phenylethyl)octahydroquinolin-7-ones. <i>Tetrahedron: Asymmetry</i> , 2001, 12, 3209-3211.	1.8	7
54	Study of minimum energy conformers of N-substituted derivatives of piperidine and pyrrolidine. Evidence of weak H-bonding by theoretical correlation with experimental NMR data. <i>Journal of Molecular Structure</i> , 2006, 786, 53-64.	3.6	7

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55	The crystal and molecular structures of N,N <sup>ε</sup> -di(2-acetylcyclohexenyl)ethylenediamine and its copper(II) complex. Canadian Journal of Chemistry, 1993, 71, 358-363.	1.1	6
56	Diacetylcurcumin: Its Potential Antiarthritic Effect on a Freund <sup>ε</sup> ™s Complete Adjuvant-Induced Murine Model. Molecules, 2019, 24, 2643.	3.8	6
57	Distinguishing two-bond and three-bond <sup>13</sup> C- <sup>1</sup> H connectivities by 2D BIRD-decoupled difference spectra: The DODO pulse. Magnetic Resonance in Chemistry, 1995, 33, 705-709.	1.9	5
58	The Reaction of Perezone and Isoperezone with Hydroxylamine: A Surprisingly Facile Method for Introducing an NH <sub>2</sub> Group into the Quinone Functionality. Natural Product Research, 1995, 6, 103-109.	0.4	5
59	Hepta <sup>ε</sup> , hexa <sup>ε</sup> , penta <sup>ε</sup> , tetra <sup>ε</sup> , and trisaccharide resin glycosides from three species of <i>Ipomoea</i> and their antiproliferative activity on two glioma cell lines. Magnetic Resonance in Chemistry, 2017, 55, 214-223.	1.9	5
60	Solution <sup>1</sup> H and <sup>13</sup> C NMR of new chiral 1,4-oxazepinium heterocycles and their intermediates from the reaction of 2,4-pentanedione with L <sup>±</sup> -amino acids and (R)-(-)-2-phenylglycinol. Magnetic Resonance in Chemistry, 2003, 41, 975-982.	1.9	4
61	Non-Cytotoxic Dibenzyl and Difluoroborate Curcuminoid Fluorophores Allow Visualization of Nucleus or Cytoplasm in Bioimaging. Molecules, 2020, 25, 3205.	3.8	4
62	Synthesis, Crystallography, and Anti-Leukemic Activity of the Amino Adducts of Dehydroleucodine. Molecules, 2020, 25, 4825.	3.8	3
63	Mangifera indica: Crystal Structures of Two Cycloartane Type Triterpenoids Present in the Bark. Journal of Chemical Crystallography, 2010, 40, 241-247.	1.1	2
64	Investigation of Three Diastereomeric Chalcone Epoxides Derivatives by NMR Spectroscopy and X-ray Crystallography. Journal of Chemical Crystallography, 2014, 44, 512-519.	1.1	2
65	Crystal Structure, Synthesis and Biological Activity of Ether and Ester <i>trans</i>-Ferulic Acid Derivatives. International Journal of Organic Chemistry, 2018, 08, 359-377.	0.7	2
66	Concerning the Recently Reassigned <sup>13</sup> C-NMR Spectrum of Taraxasteryl Acetate. Planta Medica, 1996, 62, 484-484.	1.3	1
67	Crystal Structure of (+)-(R)-3-Methyl-1-(1'-phenyl-ethyl)-1H-pyridin-2-one.. Analytical Sciences, 2001, 17, 1247-1248.	1.6	1
68	Crystal Structure of (-)-(1'R)-1-(2'-Hydroxy-1'-phenyl-ethyl)-1H-pyridin-2-one.. Analytical Sciences, 2001, 17, 1139-1140.	1.6	1
69	Crystal Structure of {Acetic acid 4-[7-(4-acetoxy-3-methoxyphenyl)-3,5-dioxoheptyl]-2-methoxy ester-03.05}-boron difluoride: A Boron Complex of Acetylated Tetrahydrocurcumin Derivative. Analytical Sciences: X-ray Structure Analysis Online, 2004, 20, X167-X168.	0.1	1
70	X-ray crystal structures of new chiral enamines from 2,4-pentanedione and their heterocyclic derivatives. Journal of Chemical Crystallography, 2007, 37, 119-133.	1.1	1
71	X-ray Crystal Structure of Grandiflorenic Acid [( <sup>ε</sup> )-kaura-9(11)-16-dien-19-oic Acid] Methyl Ester, a Compound Formerly Considered as an Oily Derivative. Journal of Chemical Crystallography, 2009, 39, 474-477.	1.1	1
72	Diastereospecific Etherification and Diastereoselective Monobromination of (R)-( <sup>ε</sup> )-1-(2-Hydroxy-1-phenylethyl)-3,4-dihydropyridin-2(1H)-one. Heterocycles, 2015, 91, 1042.	0.7	1

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73	Time Course of the Protective Effect of Decoction of Selaginella lepidophylla in Chromium VI-Induced Nephrotoxicity in Rats. Revista Brasileira De Farmacognosia, 2020, 30, 854-858.	1.4	1
74	Heterocyclic Derivatives of Curcumin: Crystal Structure of 3,5-Bis[.BETA.-(4-acetoxy-3-methoxyphenyl)ethyl]isoxazol. Analytical Sciences: X-ray Structure Analysis Online, 2006, 22, X165-X166.	0.1	0
75	Heterocyclic Derivatives of Curcumin: Crystal Structure of 3,5-Bis[.BETA.-(4-acetoxy-3-methoxyphenyl)ethyl]pyrazole Benzene Solvate. Analytical Sciences: X-ray Structure Analysis Online, 2008, 24, X1-X2.	0.1	0
76	Expected and Unexpected Products in Half Curcuminoid Synthesis: Crystal Structures of But-3-en-2-ones and 3-Methylcyclohex-2-enones. Crystals, 2021, 11, 404.	2.2	0