

ROSA LUISA SANTILLAN BACA

DATOS LABORALES

Nombre del cargo que ocupa: Profesor Investigador CINVESTAV-3C

Institución: Departamento de Química, Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional.

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Puestos Desempeñados

- **Investigador CINVESTAV-3C**, CINVESTAV-IPN, Departamento de Química. (Abril 1991-a la fecha).
- **Profesor Adjunto "C"**, CINVESTAV-IPN, Departamento de Química. (Mayo 1986-diciembre 1988, diciembre 1990-marzo 1991).
- **Profesor Adjunto "A"**, CINVESTAV-IPN, Departamento de Química. (Agosto 1985-abril 1986).
- **Profesor Auxiliar "E"**, CINVESTAV-IPN, Departamento de Química. (Enero 1985-julio 1985).
- **Instructor "B"**, CINVESTAV-IPN, Departamento de Química. (Junio 1982-diciembre 1984).
- **Auxiliar de Investigación**, Departamento de Bioquímica Aplicada del Instituto Mexicano de Investigaciones Tecnológicas, A. C. (Julio 1977- julio 1978).

FORMACION ACADEMICA

- Licenciatura:** Química. Universidad de Georgetown, Washington, D. C., Estados Unidos., (1973-1977).
- Maestría:** Grado Académico de Maestro en Ciencias “Especialidad en Química Orgánica”, **Título de tesis:** “Resonancia Magnética Nuclear de Naftoflavonas”, bajo la dirección del Dr. Pedro Joseph-Nathan. Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional. 12 de febrero de 1982
- Doctorado:** Grado Académico de Doctor en Ciencias “Especialidad en Química Orgánica”, **Título de tesis:** “Química y Espectroscopía de Constituyentes de Pereziae”, bajo la dirección del Dr. Pedro Joseph-Nathan. Centro de Investigación y de Estudios Avanzados del Instituto Politécnico Nacional. 7 de marzo de 1986
- Año Sabático. Universidad de California en los Angeles (UCLA) Department of Chemistry and Biochemistry, Estados Unidos. Del 1° de agosto del 2002 al 31 de agosto del 2003.
- Facultad de Química, Departamento de Química Orgánica, Universidad Nacional Autónoma de México. Del 1° de Agosto del 2014 al 31 de julio del 2015.

DIRECCION DE TESIS:

En proceso:

- **Doctorado.** Juan Carlos Flores, Departamento de Química, Cinvestav-IPN.

Concluidas:

1. **Doctorado.** Pedro Iván Ramírez Montes. **Estructura cristalina de rotores moleculares esteroideos y no esteroideos.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N., Julio 24, 2015.
2. **Doctorado.** Arturo Jiménez Sánchez. **Diseño, síntesis y estudio de propiedades fotofísicas de derivados de bases de Schiff y de fluoreno.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N., Julio 11, 2014.

3. **Doctorado.** Nancy Evelyn Magaña Vergara, **Síntesis de Nuevos Compuestos Dendriméricoss con Posible Aplicación en el Tratamiento de Cáncer.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. enero 16, 2014.
4. **Doctorado.** Jesús Rodríguez Romero. **Síntesis, caracterización y estudio de propiedades fotofísicas de fluoróforos basados en etinilfluoreno y 1,3,5-trifenilbenceno.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. julio 18, 2013.
5. **Doctorado.** José Oscar Humberto Pérez. **Síntesis de Hexa- y pentaciclos esteroidales y compuestos vinil.cetocolesténicos con actividad anticancerígena.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. junio 24, 2011.
6. **Doctorado** Oscar Domínguez Hernández. **Efecto del Enlace de Hidrógeno en la Síntesis de Oxaziridinas Quirales y en el Tautomerismo de las Bases de Schiff,** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N julio 15, 2011.
7. **Doctorado.** Braulio Victor Rodríguez Molina, **Síntesis de Rotores Moleculares,** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. diciembre 9, 2010.
8. **Doctorado. (Codirección con Dr. Norberto Farfán)** Blanca Margarita Muñoz Flores, **Diseño y Síntesis de Compuestos con posibles propiedades de óptica no lineal.** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. Julio 25, 2008.
9. **Doctorado.** Yliana López Castro, **“Nuevas transformaciones oxidativas en la cadena lateral de sapogeninas espirostanicas y síntesis de precursores azaesteroidales”,** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. Diciembre 11 2007.
10. **Doctorado,** Mario Alejandro Rodríguez Rivera, **“Reactividad y Análisis estructural de boronatos derivados de enolimas y enoliminomas tridentadas”,** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N Agosto 2007.
11. **Doctorado.** Susana Rincón Arriaga, **“Apertura regioselectiva del anillo espirocetálico de sapogeninas y su aplicación en la síntesis de brasinoesteroides”,** Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. Octubre 2006
12. **Doctorado.** Susana Rojas Lima, **“Estudio Configuracional de Furocumarinas, Oxantronas y Cucurbitacinas por Difracción de Rayos-**

X Dicroísmo Circular y RMN", Departamento de Química del Centro de Investigación y de Estudios Avanzados del I.P.N. 21/09/98.

Co-dirección de Tesis de Maestría

1. **Maestría.** Andrés Aguilar Granda, "Estudio supramolecular en nuevos derivados del etinilestradiol obtenidos vía acoplamiento de Sonogashira." Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo, septiembre 2, 2014.
2. **Maestría.** Josué Vazquez Chavez, "Síntesis y caracterización de una oxaziridina a partir de diosgenina." Instituto de Investigaciones Químico Biológicas. Universidad Michoacana de San Nicolás de Hidalgo, septiembre 2, 2014.

PUBLICACIONES

1. P. Joseph-Nathan, R.L. Santillan, "**¹H NMR Study of Naphthoflavones with Shift Reagents**", *Org. Magn. Reson.*, **22**(2), 129-130 (1984).
2. P. Joseph-Nathan, E. Martínez, R.L. Santillan, J.R. Wesener, H. Günther, "**Two-Dimensional NMR Studies of Cyperene**", *Org. Magn. Reson.*, **22**(5), 308-311 (1984).
3. P. Joseph-Nathan, R.L. Santillan, P. Schmitt, H. Günther, "**The Study of Longifolene by Two-Dimensional NMR Spectroscopy**", *Org. Magn. Reson.*, **22**(7), 450-453 (1984).
4. P. Joseph-Nathan, J. Espiñeira, R.L. Santillan, "**¹⁹F-NMR Study of Fluorinated Corticosteroids**", *Spectrochim. Acta* **40A**(4), 347-349 (1984).
5. P. Joseph-Nathan, R.L. Santillan, "**[¹³C] NMR Study of Naphthoflavones**", *Spectrochim. Acta* **40A**(11/12), 1077-1080 (1984).
6. R. Aydin, J.R. Wesener, H. Günther, R.L. Santillan, M.E. Garibay, P. Joseph Nathan, "**On the Stereospecificity of Intrinsic ²H/¹H NMR Isotope Effects on ¹³C Chemical Shifts in Cyclohexanes**", *J. Org. Chem.*, **49**(20), 3845-3847(1984).
7. P. Joseph-Nathan, R.L. Santillan, A. Gutiérrez, "**¹³C NMR Study of Cedrol, 6-Isocedrol and α -Cedrene**", *J. Nat. Prod.*, **47**(6), 924-933 (1984).
8. P. Joseph-Nathan, M.P. González, L.U. Román, J.D. Hernández, A. Flores-Vela, R.L. Santillan, "**Contribution to the Chemistry of β -Pipitzol**", *J. Nat. Prod.*, **48**(4), 585-591 (1985).
9. P. Joseph-Nathan, A. Gutiérrez, J.D. Hernández, L.U. Román, R.L. Santillan, "**¹³C NMR Studies of Cedranolides**", *J. Nat. Prod.*, **49**(1), 79-89 (1986).
10. P. Joseph-Nathan, Ma. E. Garibay, R. L. Santillan, "**BF₃ Catalyzed Cycloadditions of Naturally Occurring Sesquiterpene p Benzoquinones**", *J. Org. Chem.*, **52**(5), 759-763 (1987).
11. P. Joseph-Nathan, E. Martínez, M. Rojas, R.L. Santillan, "**The Solid State Versus the Solution Structure of 6-Hydroxypezone**", *J. Nat. Prod.*, **50**(5), 860-865 (1987).

12. F.H. Guidugli, J. Kavka, M.E. Garibay, R.L. Santillan, P. Joseph-Nathan, **"Mass Spectral Studies of Naphthoflavones"**, *Org. Mass. Spectrom.*, **22**(8), 479-485 (1987).
13. P. Joseph-Nathan, R. Tovar-Miranda, E. Martínez, R.L. Santillan, **"¹³C-NMR Studies of Curcumenes"**, *J. Nat. Prod.*, **51**(6), 1116-1128 (1988).
14. P. Joseph-Nathan, R.L. Santillan, E. Martínez, **"A Two-Dimensional Double Quantum Coherence ¹³C NMR Study of Cypereene"**, *Spectros. Int. J.*, **6**, 185-192 (1988).
15. N. Farfán, R.L. Santillan, D. Castillo, R. Cruz, P. Joseph-Nathan, J.-C. Daran, **"Fused Heterocycles Derived from Pseudoephedrine and Ephedrine"**, *Can. J. Chem.*, **70**, 2764-2770 (1992).
16. F.H. Guidugli, J. Kavka, R.L. Santillan, M.E. Garibay, P. Joseph-Nathan, **"Origin of the [M-H]⁺ Ion in Flavanone"**, *Org. Mass. Spectrom.*, **27**(11), 1299-1304 (1992).
17. N. Farfán, D. Silva, R. Santillan, **"NMR Studies of 1,1-Diphenylboroxazolidone Derivatives of α -Aminoacids"**, *Heteroatom Chem.*, **4**(6), 533-536 (1993).
18. P. Joseph-Nathan, E. Burgueño-Tapia, R.L. Santillan, **"Further BF₃• OEt₂-Catalyzed Cycloadditions of Sesquiterpenic p-Benzoquinones"**, *J. Nat. Prod.*, **56**(10), 1758-1765 (1993).
19. L.A. Torres, A. Pérez, N. Farfán, D. Castillo, R.L. Santillan, **"Rotating-Bomb Combustion Calorimetry and the Standard Enthalpies of Formation of Two Borinic Esters"**, *J. Chem. Thermodynamics* **26**(4), 337-343 (1994).
20. N. Farfán, R. Santillan, J. Guzmán, B. Castillo, A. Ortiz, J.-C. Daran, F. Robert, S. Halut, **"New Tricyclic Products from the Reaction of 2,3-Butanedione and Ethanolamine"**, *Tetrahedron* **50**(33), 9951-9960 (1994).
21. N. Farfán, R. Santillan, B. Castillo, P. Carretero, Ma. J. Rosales, E. García-Baéz, A. Flores-Vela, J.-C. Daran, S. Halut, **"Nuclear Magnetic Resonance and X-Ray Study of a [1,4]Benzothiazino[3,2-b][1,4]Benzothiazine and Bi(benzothiazolyl), Isomeric N,S-Heterocycles Derived from the Reactions of o-Aminobenzenethiol with Some 1,2-Diones"**, *J. Chem. Res. (M)* 2521-2527. *J. Chem. Res. (S)* (12) 458-459 (1994).
22. L.A. Torres, R. Gudiño, I. Hernández-Contreras, Ma. E. Ochoa, N. Farfán, R.L. Santillan, **"The Standard Enthalpies of Combustion and Formation of Bioxazolidine and cis-oxazino-oxazines Derived from Pseudoephedrine and Ephedrine"**, *J. Chem. Thermodynamics* **27**(7), 779-786 (1995).
23. Ortiz, N. Farfán, R. Santillan, Ma. de J. Rosales, E. García-Baéz, J.-C. Daran, S. Halut, **"Highly Regio- and Stereoselective Formation of 2-Hydroxy-5,6-dihydro-2H-1,4-oxazines. An X-Ray and ¹³C NMR Study"**, *Tetrahedron Asymmetry* **6**(11), 2715-2722 (1995).
24. A. T. Balaban, I. Haiduc, H. Höpfl, N. Farfán, R. Santillán, **"Spiroborates Revisited. X Ray Crystal and Molecular Structures of Boron Chelate Compounds with Tropolone and 1,3-Diketones"**, *Main Gp. Metal Chem.*, **19**(6), 385-395 (1996).

25. M. del R. Hernández-Medel, O. López Márquez, R. Santillán, A. Trigos, **"Mayoside, an Oxanthrone from *Picramnia hirsuta*"**, *Phytochem.*, **43**(1), 279-281 (1996).
26. R. Gudiño, L.A. Torres, M. Campos, R.L. Santillán, N. Farfán, **"The Standard Molar Enthalpies of Combustion and Sublimation of benzothiazino-benzothiazine and benzoxazino-benzoxazine"**, *J. Chem. Thermodynamics*, **29**, 565-574 (1997).
27. H. Höpfl, N. Farfán, D. Castillo, R. Santillán, R. Contreras, F. J. Martínez-Martínez, M. Galván, R. Alvarez, L. Fernández, S. Halut, J. C. Daran, **"Dynamic NMR and X-Ray Diffraction Study of (N-B)diphenyl (2-aminoethoxy) borane Derivatives of Ephedrines and Pseudoephedrines"**, *J. Organomet. Chem.*, **544**, 175-188 (1997).
28. Ortiz, J. Carrasco, H. Höpfl, R. Santillan, N. Farfán, **"One step syntheses of heteropropellanes"**, *Synth. Commun.*, **28**(7), 1293-1297 (1998).
29. H. Höpfl, M. Galván, N. Farfán R. Santillán, **"Ab Initio Study of Substituted 2-aminoethylborinates"**, *J. Mol. Struct. (Theochem.)* **427**, 1-13 (1998).
30. H. Höpfl, M. Sánchez, V. Bárba, N. Farfán, S. Rojas, R. Santillán, **"Synthesis and study of monometric and dimeric boronates by spectroscopic methods and X-ray crystallography"**, *Inorg.Chem.*, **37**(8), 1679-1692 (1998).
31. H. Höpfl, N. Farfán, D. Castillo, R. Santillan, A. Gutiérrez, J.C. Daran, **"Study of cyclic borinates obtained from piperidine- and piperazine alcohols by spectroscopic methods and X-ray crystallography"**, *J. Organomet. Chem.*, **553**, 221-239 (1998).
32. H. Höpfl, N. Pérez-Hernández, S. Roja-Lima, R. Santillán, N. Farfán, **"X-Ray crystallographic study of neutral boron chelates with β -diketones and tropolone"**, *Heteroatom Chem.*, **9**(4), 359-368 (1998).
33. R. Gudiño, L.A. Torres, R. L. Santillan, N. Farfán, **"The standard molar enthalpies of combustion and vaporization of three oxazolidines"**, *J.Chem. Thermodynamics* **30**, 671-679 (1998).
34. R. Santillan, N. Farfán, D. Castillo, A. Gutiérrez, H. Höpfl, **" ^{13}C NMR and Crystallographic study of thymolsulfonephthalein"**, *Eur. J. Chem.*, **4**(10), 1904-1909 (1998).
35. J. Trujillo, H. Höpfl, D. Castillo, R. Santillan and N. Farfán, **"X-Ray Crystallographic study of boroxazolidones obtained from L-ornithine, L-methionine, Kainic acid and 2,6-pyridinedicarboxylic acid"**, *J. Organomet. Chem.*, **571**, 21-29 (1998).
36. M. del R. Hernández-Medel, I. García Salmones, R. Santillan, A. Trigos, **"An anthrone from *Picramnia antidesma*"**, *Phytochem.*, **49**(8), 2599-2601 (1998).
37. V. Santes, A. Ortiz, R. Santillan, A. Gutiérrez, N. Farfán, **"Synthesis of Bisoxazolidines and morpholones"**, *Synthetic Commun.*, **29**(8), 1277-1286 (1999)
38. A. Ortiz, N. Farfán, H. Höpfl, R. Santillán, Ma. E. Ochoa, A. Gutiérrez, **"A New method for the preparation of unsymmetrical 1,4-substituted piperazine derivatives"**, *Tetrahedron: Asymm.*, **10**, 799-811 (1999)

39. S. Rojas-Lima, R. L. Santillan, M. A. Domínguez, A. Gutiérrez, **"Furocoumarins of three species of the genus *Dorstenia*"**, *Phytochem.* **50**, 863-868 (1999).
40. M. del R. Hernández-Medel, C.O. Ramírez-Corzas, M. N. Rivera-Domínguez, J. Ramírez-Méndez, R. Santillan, S. Rojas-Lima, **"Diastereomeric C-glycosyloxanthrones from *Picramnia antidesma*"**, *Phytochem.* **50**, 1379-1383, (1999).
41. N. Farfán, H. Höpfl, V. Barba, Ma.-E. Ochoa, R. Santillan, E. Gómez, A. Gutiérrez, **"New Perspectives for Boronic Esters in Macrocyclic Chemistry"**, *J. Organomet. Chem.* **581**, 70-81 (1999).
42. J. Sandoval-Ramírez, A. Castro-Méndez, S. Meza-Reyes, F. Reyes-Vázquez, R. Santillan, N. Farfán, **"Preparation of 22,26-epoxycholest-22-ene steroids. Novel transformation of the side chain in sapogenins"**, *Tetrahedron Lett.*, **40**, 5143-5146 (1999).
43. J. Trujillo-Ferrara, R. Santillan, H. I. Beltrán, N. Farfán, H. Höpfl, **"¹H and ¹³C NMR Spectra for a Series of Arylmaleamic Acids, Arylmaleimides, Arylsuccinamic Acids and Arylsuccinimides"**, *Magn. Res. Chem.* **37**, 682- 686 (1999).
44. V. Santes, S. Rojas-Lima, R. L. Santillan and N. Farfán, **"Synthesis and Study of Isomeric Benzo [1,4] Oxazines and Benzothiazolines by NMR Spectroscopy and X-Ray Crystallography"**, *Monatshefte für Chemie.*, **130**, 1481-1486 (1999).
45. V. Bárba, C. Hernández, S. Rojas-Lima, N. Farfán, R. Santillan, **"Preparation of N-arylsubstituted spiro-β-lactams via Staudinger cycloaddition"**, *Can. J. Chem.* **77**(12), 2025-2032 (1999).
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47. H. Höpfl, V. Barba, G. Vargas, N. Farfán, R. Santillan and D. Castillo. **"X-ray crystallographic study of three (N→B)-borinates prepared from 8-hydroxyquinoline and 2-hydroxypyridine"**, *Khim. Geterotsikl Soedin* (8), 1041-1057 (1999). *Chemistry of Heterocyclic Compounds* **35**(8), 912-927 (2000).
48. V. Barba, D. Cuahutle, M. E. Ochoa, R. Santillan, N. Farfán, **"Two New Complexes of Phenylboronic Acid with N-salicylidene-4-aminobutanol"**, *Inorg. Chim. Acta.*, **303**, 7-11 (2000).
49. V. Santes, E. Gómez, G. Jiménez, R. Santillan, A. Gutiérrez, N. Farfán, **"Syntheses and Study of New 2-hydroxy-5,6-dihydro-2H [1,4] Oxazines by NMR and X-ray Crystallography"**, *Synth. Commun.*, **30**(15) 2721-2734. (2000)
50. S. Rojas-Lima, N. Farfán, R. Santillan, D. Castillo, M. E. Sosa-Torres, H. Höpfl, **"Comparative Structural characterization of the biquaternized N-CH₃ and N-BH₃ derivatives of the cis-cyclen and cis-cyclam condensation products with glyoxal"**, *Tetrahedron*, **56**(35), 6427-6433 (2000).
51. V. Barba, R. Luna, D. Castillo, R. Santillan, N. Farfán, **"Synthesis and**

- molecular structure of dimeric boron compounds**", *J. Organomet. Chem.* **604**, 273-282 (2000).
52. M. E. Ochoa, S. Rojas-Lima, H. Höpfl, P. Rodríguez, D. Castillo, N. Farfán, R. Santillan, "**Facile Synthesis of 1,3,6-Oxadiazepines from 2,2'-(1,2-ethanediyl-diimino)bisphenols**", *Tetrahedron*, **57**(1), 55-64 (2001).
 53. V. Santes, E. Gómez, R. Santillan, N. Farfán, "**Facile deuteration of Chiral N,N'-substituted piperazines**", *Synthesis*, (2), 235-238 (2001).
 54. V. Barba, E. Gallegos, R. Santillán, N. Farfán, "**New boron macrocycles based on self-assembly of Schiff bases**", *J. Organomet. Chem.* **622**, 259-264 (2001).
 55. V. Santes, E. Gómez, V. Zárate, R. Santillan, N. Farfán, S. Rojas-Lima, "**Synthesis of new homochiral 2,3-dialkylpiperazines derived from (R)-(-)-phenylglycinol**", *Tetrahedron: Asymmetry* **12**, 241-247 (2001).
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 57. M. Sánchez, H. Höpfl, M. E. Ochoa, N. Farfán, R. Santillan and S. Rojas-Lima, "**Preparation of seven- and eight- membered heterocycles from different salen ligands and arylboronic acids**", *Inorg. Chem.*, **40**, 6405-6412 (2001).
 58. H. Beltrán, A. Abreu, L. S. Zamudio-Rivera, T. Mancilla, R. Santillan, N. Farfán, "**Síntesis y caracterización espectroscópica de N-(2-hidroxibencil)- α -aminoácidos**", *Rev. Soc. Quím. Méx.*, **45**(4) 152-158 (2001).
 59. M. Sánchez, H. Höpfl, M. E. Ochoa, N. Farfán, R. Santillán, S. Rojas-Lima, "**Facile preparation of [4,4] metacyclophane- [5,5]and paracyclophane-type macrocycles from arylboronic acids and salicylidene-aminoaryl alcohols**", *Chem. Eur. J.*, **8**(3), 612-621 (2002).
 60. H.I. Beltrán, L. S. Zamudio-Rivera, T. Mancilla, R. Santillan, N. Farfán, "**X-Ray analysis and structural characterization of 2-phenyl-6-aza-1,3-dioxa-2-borabenzocyclononones**", *J. Organometal. Chem.*, **657**, 194-204 (2002).
 61. J. I. Sotelo-Félix, D. Martínez-Fong, P. Muriel, R. L. Santillan, D. Castillo, P. Yahuaca, "**Evaluation of the Effectiveness of *Rosmarinus officinalis* L. (Lamiaceae) in the alleviation of carbon Tetrachloride-Induced acute hepatotoxicity in the rat**", *J. Ethnopharm.*, **81**, 145-154, (2002).
 62. H.I. Beltrán, S. Jesús-Alas, R. Santillan and N. Farfán, "**Fixed Stereochemical Control in the Synthesis of New Mono and Disubstituted 2-Phenyl-6-aza-1,3-dioxa-2-borabenzocyclononenes**", *Can. J. Chem.*, **80**, 801-812 (2002).
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- “Regioselective Cleavage of Rings E And F in Sarsasapogenin”**, *Steroids*, **68**, 199-204, (2003).
65. J. Trujillo-Ferrara, Iván Vázquez, J. Espinosa, R. Santillan, N. Farfán and H. Höpfl, **“Reversible and Irreversible Inhibitory Activity of Succinic and Maleic Acid derivatives on Acetylcholinesterase”**, *Eur. J. Pharm. Sci.* **18**, 313-322 (2003).
66. H. I. Beltrán, L. S. Zamudio-Rivera, T. Mancilla, R. Santillan, N. Farfán, **“One-Step Preparation, Structural Assignment, and X-ray Study of 2,2-Di-n-butyl-and 2,2-Diphenyl-6-aza-1,3-dioxo-2-stannabenzocyclonon-4-ones Derived from Amino Acids”**, *Chem Eur. J.*, (9), 2291-2306 (2003).
67. V. Barba, A. Rodríguez, Ma.E. Ochoa, R. Santillan, N. Farfán, **“Bisoxazaborolidines and boron complexes derived from tetradentate ligands. Synthesis and spectroscopic studies”**, *Inorg. Chim. Acta.* ,**357** (9), 2593-2601 (2004).
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