

# Humberto RodrÃ-iguez-Solla

## List of Publications by Year in descending order

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1570  
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#	ARTICLE	IF	CITATIONS
1	A cooperative zinc/catalytic indium system for the stereoselective sequential synthesis of ( <i>cis</i> )-1,3-dienes from carbonyl compounds. <i>Organic Chemistry Frontiers</i> , 2021, 8, 591-598.	4.5	5
2	Modern Synthetic Methods for the Stereoselective Construction of 1,3-Dienes. <i>Molecules</i> , 2021, 26, 249.	3.8	39
3	Chemoenzymatic Stereoselective Synthesis of trans-Flavan-4-ols via Lipase-Catalyzed Kinetic Resolutions. <i>Catalysts</i> , 2021, 11, 1296.	3.5	1
4	Sml2-promoted cross coupling reaction of N-2-bromoethylphthalimide and carbonyl compounds: Synthesis of <i>trans</i> -aryl- <i>trans</i> -hydroxy ketones. <i>Tetrahedron</i> , 2020, 76, 130839.	1.9	3
5	Temperature-Controlled Stereodivergent Synthesis of 2,2-Biflavanones Promoted by Samarium Diiodide. <i>Chemistry - A European Journal</i> , 2019, 25, 13104-13108.	3.3	8
6	Recent Advances in the Chemistry and Biology of Spirocyclic Nucleosides. <i>Topics in Heterocyclic Chemistry</i> , 2019, , 171-213.	0.2	3
7	Synthesis of carbohydrate-derived ( <i>Z</i> )-vinyl halides and silanes: Samarium-promoted stereoselective 1,2-elimination on sugar-derived <i>trans</i> -halomethylcarbinol acetates. <i>Tetrahedron</i> , 2018, 74, 5475-5480.	1.9	5
8	Unctuous ZrO <sub>2</sub> nanoparticles with improved functional attributes as lubricant additives. <i>Nanotechnology</i> , 2017, 28, 495704.	2.6	14
9	Detection of sulfenic acid in intact proteins by mass spectrometric techniques: application to serum samples. <i>RSC Advances</i> , 2017, 7, 44162-44168.	3.6	1
10	Metal-Mediated Debromination of gem-Dibromoalkenes under Mild Conditions. <i>Synlett</i> , 2016, 27, 1096-1099.	1.8	5
11	Ohmic Heating and Ionic Liquids in Combination for the Indium-Promoted Synthesis of <i>trans</i> -Halo Alkenyl Compounds: Applications to Pd-Catalysed Cross-Coupling Reactions. <i>European Journal of Organic Chemistry</i> , 2016, 2016, 99-107.	2.4	21
12	General Preparation of <i>cis</i> -Substituted ( <i>cis</i> )-1,3-Dienes under Mild Conditions. <i>European Journal of Organic Chemistry</i> , 2015, 2015, 2524-2530.	2.4	5
13	Aza-Reformatsky Reaction Promoted by Catalytic Samarium Diiodide: Synthesis of <i>trans</i> -Amino Esters or Amides. <i>Synlett</i> , 2014, 25, 1709-1712.	1.8	7
14	Highly enantioselective synthesis of <i>trans</i> -azido- <i>trans</i> -hydroxy methyl ketones catalyzed by a cooperative proline-guanidinium salt system. <i>Chemical Communications</i> , 2014, 50, 2598.	4.1	40
15	Synthesis of Highly Functionalized Enantiopure Halocyclopropanes Derived from Carbohydrates. <i>European Journal of Organic Chemistry</i> , 2013, 2013, 4953-4961.	2.4	4
16	Synthesis of Enantiopure 2-C-Glycosyl-3-nitrochromenes. <i>Journal of Organic Chemistry</i> , 2013, 78, 12831-12836.	3.2	19
17	General Metal-Free Baeyer-Villiger-Type Synthesis of Vinyl Acetates. <i>Organic Letters</i> , 2013, 15, 2810-2813.	4.6	41
18	Stereoselective Synthesis of Carbohydrate-Derived N-Sulfonyl Aziridines. <i>Synlett</i> , 2013, 24, 181-184.	1.8	7

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19	Synthesis of Sugar-Derived 2-Nitroalkanols via Henry Reaction Promoted by Samarium Diodide or Indium. <i>Synlett</i> , 2012, 23, 2083-2086.	1.8	13
20	Switching Diastereoselectivity in Proline-Catalyzed Aldol Reactions. <i>Journal of Organic Chemistry</i> , 2012, 77, 10375-10381.	3.2	53
21	TBD/Al <sub>2</sub> O <sub>3</sub> : a novel catalytic system for dynamic intermolecular aldol reactions that exhibit complex system behaviour. <i>Organic and Biomolecular Chemistry</i> , 2012, 10, 1976.	2.8	20
22	TBD-catalyzed $\alpha$ -sulfenylation of cyclic ketones: desymmetrization of 4-substituted cyclohexanones. <i>Tetrahedron</i> , 2012, 68, 6438-6446.	1.9	14
23	Indium-Mediated Aza-Henry Reaction of Imines: Access to $\alpha$ -Nitroamines. <i>European Journal of Organic Chemistry</i> , 2012, 2012, 4339-4346.	2.4	13
24	Samarium-Promoted Asymmetric Aldol-Tishchenko Reaction: Synthesis of Amino Acid-Derived $\alpha$ -Amino- $\beta$ , $\gamma$ -diols. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 1679-1684.	4.3	9
25	Highly Enantioselective Proline-Catalysed Direct Aldol Reaction of Chloroacetone and Aromatic Aldehydes. <i>Chemistry - A European Journal</i> , 2012, 18, 5188-5190.	3.3	29
26	The use of samarium or sodium iodide salts as an alternative for the aza-Henry reaction. <i>Tetrahedron</i> , 2012, 68, 1736-1744.	1.9	23
27	Synthesis and structural characterization of cobalt(II) and copper(II) complexes with N,N-disubstituted-N $\alpha$ -acylthioureas. <i>Polyhedron</i> , 2012, 36, 133-140.	2.2	28
28	Asymmetric Construction of Quaternary Stereocenters: Synthesis of Enantiopure Amino Acid-Based Tricyclic $\alpha,\beta$ -Enones through an <i>ipso</i> -Friedel-Crafts/Michael Addition Cascade. <i>Advanced Synthesis and Catalysis</i> , 2012, 354, 295-300.	4.3	13
29	Chromium-Mediated Stereoselective Synthesis of Carbohydrate-Derived (E)- $\alpha,\beta$ -Unsaturated Esters or Amides. <i>Journal of Organic Chemistry</i> , 2011, 76, 5461-5465.	3.2	4
30	Direct Aldol Reactions Catalyzed by a Heterogeneous Guanidinium Salt/Proline System under Solvent-Free Conditions. <i>Organic Letters</i> , 2011, 13, 3032-3035.	4.6	64
31	An Efficient Catalytic Chromium-Mediated Iodocyclopropanation Reaction: Stereoselective Synthesis of Iodocyclopropanecarboxamides. <i>Advanced Synthesis and Catalysis</i> , 2011, 353, 49-52.	4.3	8
32	A Convenient Synthesis of (E)- $\alpha,\beta$ -Unsaturated Esters with Total Stereoselectivity Promoted by Catalytic Samarium Diodide. <i>Synlett</i> , 2011, 2011, 262-264.	1.8	9
33	Synthesis and Synthetic Applications of Samarium Enolates of Unmasked Amides: Efficient Synthesis of 3-Aminoamides and 3-Amino-2-chloroamides. <i>Synlett</i> , 2010, 2010, 2119-2121.	1.8	8
34	Sequential Synthesis of (E)- $\alpha,\beta$ -Unsaturated Primary Amides with Complete Stereoselectivity. <i>Journal of Organic Chemistry</i> , 2010, 75, 3451-3453.	3.2	23
35	Total Regioselective Transformation of Aromatic Aziridine 2-Carboxamides into 2-Aminoamides Promoted by Active Manganese. <i>Journal of Organic Chemistry</i> , 2010, 75, 2407-2410.	3.2	19
36	Stereospecific and highly stereoselective cyclopropanation reactions promoted by samarium. <i>Chemical Society Reviews</i> , 2010, 39, 4103.	38.1	73

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37	Stereoselective Olefination Reactions Promoted by Rieke Manganese. <i>Synthesis</i> , 2009, 2009, 2634-2645.	2.3	15
38	The Use of Samarium Enolates, A Novel Alternative in the Addition Reactions to Imines. Synthesis of 3- $\alpha$ -Amino Esters, Amides and Enantiopure 3,4-Diamino Esters. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 1238-1242.	4.3	14
39	Manganese-Promoted Regioselective Ring-Opening of 2,3-Epoxy Acid Derivatives: A New Route to $\beta$ -Hydroxy Acid Derivatives. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2178-2184.	4.3	7
40	Highly Stereoselective Halocyclopropanation of $\beta,\beta$ -Unsaturated Amides. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2185-2198.	4.3	10
41	The Addition Reaction of Samarium Enolates and $\alpha$ -Haloenolates Derived from Esters, and Amides to Imines. Totally Stereoselective Synthesis of Enantiopure 3,4-Diamino Esters or Amides. <i>Advanced Synthesis and Catalysis</i> , 2009, 351, 2991-3000.	4.3	6
42	Addition Reactions of Chloro- or Iodomethylithium to Imines. Synthesis of Enantiopure Aziridines and $\beta$ -Chloroamines. <i>Journal of Organic Chemistry</i> , 2009, 74, 2452-2459.	3.2	48
43	Recent Synthetic Applications of Manganese in Organic Synthesis. <i>Chemistry - A European Journal</i> , 2008, 14, 10184-10191.	3.3	25
44	Stereoselective functionalisation of SuperQuat enamides: asymmetric synthesis of homochiral 1,2-diols and $\beta$ -benzyloxy carbonyl compounds. <i>Tetrahedron</i> , 2008, 64, 9320-9344.	1.9	28
45	Addition Reactions of Iodomethylithium to Imines. A Direct and Efficient Synthesis of Aziridines and Enantiopure Amino Aziridines. <i>Organic Letters</i> , 2008, 10, 4457-4460.	4.6	47
46	CrCl <sub>2</sub> -Promoted Stereospecific and Stereoselective Alkyl- and Silylcyclopropanation of $\beta,\beta$ -Unsaturated Amides. <i>Journal of Organic Chemistry</i> , 2008, 73, 3828-3836.	3.2	9
47	Stereoselective synthesis of (Z)- $\beta$ -halo- $\beta,\beta$ -unsaturated esters, and amides from aldehydes and trihaloesters or amides promoted by manganese. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 451-453.	2.8	7
48	Stereoselective synthesis of (Z)- $\beta$ -haloacrylic acid derivatives, and (Z)-haloallylic alcohols from aldehydes and trihaloesters or amides promoted by Rieke manganese. <i>Organic and Biomolecular Chemistry</i> , 2008, 6, 2934.	2.8	10
49	Stereospecific and Stereoselective Alkyl and Silylcyclopropanation of $\beta,\beta$ -Unsaturated Amides. <i>Organic Letters</i> , 2008, 10, 349-352.	4.6	14
50	Totally Selective Synthesis of Enantiopure (3S,5S)- and (3R,5R)-4-Amino-3,5-dihydropiperidines from Aminodiepoxides Derived from Serine. <i>Journal of Organic Chemistry</i> , 2008, 73, 6048-6051.	3.2	7
51	General, Stereoselective Synthesis of ( <i>cis</i> )- $\beta,\beta$ -Unsaturated Nitriles Promoted by Samarium Diiodide. <i>Organic Letters</i> , 2008, 10, 4549-4552.	4.6	20
52	Synthesis and Synthetic Applications of $\beta,\beta$ -Dideuterio- $\beta$ -amino Esters Promoted by Samarium Diiodide. <i>Synlett</i> , 2008, 2008, 402-404.	1.8	3
53	Synthesis and Synthetic Applications of $\beta$ -Amino Ketones Derived from Natural $\beta$ -Amino Acids. <i>Current Organic Chemistry</i> , 2008, 12, 524-543.	1.6	44
54	A Convenient Synthesis of Z-Allylsilanes with Good Stereoselectivity Promoted by Samarium Diiodide. <i>Synlett</i> , 2007, 2007, 0075-0078.	1.8	9

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55	The First Cyclopropanation Reaction of Unmasked $\hat{1}\pm, \hat{1}^2$ -Unsaturated Carboxylic Acids: $\hat{A}$ Direct and Complete Stereospecific Synthesis of Cyclopropanecarboxylic Acids Promoted by Sm/CHI $3\hat{a}$ . <i>Organic Letters</i> , 2007, 9, 2685-2688.	4.6	21
56	Asymmetric synthesis of 3,4-anti- and 3,4-syn-substituted aminopyrrolidines via lithium amide conjugate addition. <i>Organic and Biomolecular Chemistry</i> , 2007, 5, 1961.	2.8	24
57	The First Sequential Reaction Promoted by Manganese: $\hat{a}\hat{\epsilon}\%$ Complete Stereoselective Synthesis of (E)- $\hat{1}\pm, \hat{1}^2$ -Unsaturated Esters from 2,2-Dichloroesters and Aldehydes. <i>Journal of Organic Chemistry</i> , 2007, 72, 4396-4400.	3.2	18
58	A Convenient Samarium-Promoted Synthesis of Aliphatic (E)-Nitroalkenes under Mild Conditions. <i>Journal of Organic Chemistry</i> , 2007, 72, 5421-5423.	3.2	21
59	Sequential Reactions Promoted by Manganese: $\hat{a}\hat{\epsilon}\%$ Completely Stereoselective Synthesis of (<i></i>)- $\hat{1}\pm, \hat{1}^2$ -Unsaturated Amides, Ketones, Aldehydes, and Carboxylic Acids. <i>Journal of Organic Chemistry</i> , 2007, 72, 7974-7979.	3.2	35
60	Stereospecific Cyclopropanation of Highly Substituted $\hat{C}\hat{a}\hat{C}$ Double Bonds Promoted by CrCl $_{2}$ . Stereoselective Synthesis of Cyclopropanecarboxamides and Cyclopropyl Ketones. <i>Organic Letters</i> , 2007, 9, 2981-2984.	4.6	41
61	Lithium amide conjugate addition for the asymmetric synthesis of 3-aminopyrrolidines. <i>Chemical Communications</i> , 2006, , 2664.	4.1	20
62	Efficient Addition Reaction of Bromonitromethane to Aldehydes Catalyzed by NaI: $\hat{a}\hat{\epsilon}\%$ A New Route to 1-Bromo-1-nitroalkan-2-ols under Very Mild Conditions. <i>Organic Letters</i> , 2006, 8, 5979-5982.	4.6	31
63	Efficient Nitro-Aldol Reaction Using SmI $_{2}$ : $\hat{A}$ A New Route to Nitro Alcohols under Very Mild Conditions. <i>Journal of Organic Chemistry</i> , 2006, 71, 7919-7922.	3.2	35
64	An efficient synthesis of (E)- $\hat{1}\pm, \hat{1}^2$ -unsaturated ketones and esters with total stereoselectivity by using chromium dichloride. <i>Tetrahedron</i> , 2006, 62, 3292-3300.	1.9	12
65	Reduction of Multiple Bonds without Hydrogen or Hydride Complexes: Samarium Diiodide as a Mild Reducing Reagent. <i>European Journal of Organic Chemistry</i> , 2006, 2006, 1613-1625.	2.4	18
66	Manganese-Promoted $\hat{1}^2$ -Elimination Reactions: Totally Stereoselective Synthesis of (E)- $\hat{1}\pm, \hat{1}^2$ -Unsaturated Esters. <i>Synlett</i> , 2006, 2006, 315-317.	1.8	7
67	Synthesis of E- $\hat{1}\pm, \hat{1}^2$ -Unsaturated Ketones with Complete Stereoselectivity via Sequential Aldol-Type/Elimination Reactions Promoted by Samarium $\hat{A}$ Diiodide or Chromium Dichloride. <i>Synlett</i> , 2006, 2006, 837-840.	1.8	19
68	Synthesis of new acyl, furoyl, and benzoylthiocarbamates as polydentate systems. Structural study of isopropyl N-(2-furoyl)thiocarbamate. <i>Tetrahedron</i> , 2005, 61, 5812-5817.	1.9	17
69	$\hat{1}^2$ -Elimination Reactions by Using Samarium Diiodide. <i>ChemInform</i> , 2005, 36, no.	0.0	0
70	Asymmetric conjugate reductions with samarium diiodide: asymmetric synthesis of (2S,3R)- and (2S,3S)-[2-2H,3-2H]-leucine-(S)-phenylalanine dipeptides and (2S,3R)-[2-2H,3-2H]-phenylalanine methyl ester. <i>Organic and Biomolecular Chemistry</i> , 2005, 3, 1435-1447.	2.8	34
71	Photoinduced Metalation of Nonactivated $\hat{C}\hat{a}\hat{C}$ Bonds with Samarium Diiodide: $\hat{a}\hat{\epsilon}\%$ Synthesis of Alkenes with High (Z)-Selectivity through $\hat{1}^2$ -Elimination Reactions $\hat{a}\hat{\epsilon}$ . <i>Organic Letters</i> , 2005, 7, 5833-5835.	4.6	35
72	Deuteration of $\hat{1}\pm, \hat{1}^2$ -acetylenic esters, amides, or carboxylic acids without using deuterium gas: synthesis of 2,2,3,3-tetradeuterioesters, amides, or acids. <i>Tetrahedron Letters</i> , 2004, 45, 2129-2131.	1.4	17

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73	Synthesis of (E)- $\beta$ , $\gamma$ -unsaturated esters with total diastereoselectivity by using chromium dichloride. <i>Tetrahedron Letters</i> , 2004, 45, 2977-2979.	1.4	22
74	Asymmetric synthesis and applications of $\beta$ -amino Weinreb amides: asymmetric synthesis of (S)-coniine. <i>Organic and Biomolecular Chemistry</i> , 2004, 2, 1387-1394.	2.8	67
75	Diastereoselective conjugate reduction with samarium diiodide: asymmetric synthesis of methyl (2S,3R)-N-acetyl-2-amino-2,3-dideuterio-3-phenylpropionate. <i>Chemical Communications</i> , 2004, , 2502-2503.	4.1	21
76	$\beta$ -Elimination reactions by using samarium diiodide. <i>Chemical Society Reviews</i> , 2004, 33, 599-609.	38.1	62
77	Very Rapid Preparation of SmI <sub>2</sub> by Sonic Treatment of Iodoform and Metallic Samarium. <i>European Journal of Organic Chemistry</i> , 2003, 2003, 1775-1778.	2.4	48
78	Sequential Elimination-Cyclopropanation Reactions Promoted by Samarium: Highly Diastereoselective Synthesis of Cyclopropylamides.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
79	Very Rapid Preparation of SmI <sub>2</sub> by Sonic Treatment of Iodoform and Metallic Samarium.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
80	Asymmetric Synthesis of Cyclic $\beta$ -Amino Acids and Cyclic Amines via Sequential Diastereoselective Conjugate Addition and Ring Closing Metathesis.. <i>ChemInform</i> , 2003, 34, no.	0.0	0
81	Asymmetric synthesis of cyclic $\beta$ -amino acids and cyclic amines via sequential diastereoselective conjugate addition and ring closing metathesis. <i>Tetrahedron</i> , 2003, 59, 3253-3265.	1.9	90
82	Sequential Elimination-Cyclopropanation Reactions Promoted by Samarium: Highly Diastereoselective Synthesis of Cyclopropylamides. <i>Journal of Organic Chemistry</i> , 2003, 68, 1132-1133.	3.2	16
83	Oxidative Functionalisation of SuperQuat Enamides: Asymmetric Synthesis of Homochiral 1,2 Diols. <i>Synlett</i> , 2003, 2003, 1659-1662.	1.8	24
84	Ring Closing Metathesis for the Asymmetric Synthesis of (S)-Homopiperic Acid, (S)-Homoproline and (S)-Coniine. <i>Synlett</i> , 2002, 2002, 1146-1148.	1.8	57
85	Complete Stereospecific Cyclopropanation of $\beta$ , $\gamma$ -Unsaturated Amides Promoted by Sm/CH <sub>2</sub> I <sub>2</sub> We acknowledge financial support from II Plan Regional de Investigaci3n del Principado de Asturias (PB-EXP01-11) and Ministerio de Ciencia y Tecnolog3a (BQU2001-3807). We thank Dr. Francisco J. Gonz3lez for valuable discussions and Robin Walker for revising the English manuscript. J.M.C. thanks Carmen Fern3ndez-Fl3rez for her time. H.R.S. thanks Principado de Asturias for a predoctoral fellowship.. <i>Angewandte Chemie</i> , 2002, 114, 1997.	2.0	6
86	Synthesis of Different Deuterated Carboxylic Acids from Unsaturated Acids Promoted by Samarium Diiodide and D <sub>2</sub> O. <i>Chemistry - A European Journal</i> , 2002, 8, 4493-4497.	3.3	35
87	Complete Stereospecific Cyclopropanation of $\beta$ , $\gamma$ -Unsaturated Amides Promoted by Sm/CH <sub>2</sub> I <sub>2</sub> We acknowledge financial support from II Plan Regional de Investigaci3n del Principado de Asturias (PB-EXP01-11) and Ministerio de Ciencia y Tecnolog3a (BQU2001-3807). We thank Dr. Francisco J. Gonz3lez for valuable discussions and Robin Walker for revising the English manuscript. J.M.C. thanks Carmen Fern3ndez-Fl3rez for her time. H.R.S. thanks Principado de Asturias for a predoctoral fellowship.. <i>Angewandte Chemie - International Edition</i> , 2002, 41, 1917.	13.8	20
88	Synthesis of (E)- $\beta$ , $\gamma$ -Unsaturated Esters and (Z)-Vinyl Halides with Total or High Diastereoselectivity by Using Samarium Metal. <i>European Journal of Organic Chemistry</i> , 2002, 2002, 1839-1847.	2.4	19
89	Enantiopure Preparation of the Two Enantiomers of the Pseudo-C <sub>2</sub> -Symmetric N,N-Dibenzyl-1,2:4,5-diepoxy-pentan-3-amine. <i>Journal of Organic Chemistry</i> , 2001, 66, 8661-8665.	3.2	14
90	Synthesis of (E)- $\beta$ , $\gamma$ -Unsaturated Amides with High Selectivity by Using Samarium Diiodide. <i>Chemistry - A European Journal</i> , 2001, 7, 3062-3068.	3.3	43

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91	Sequential Elimination-Reduction Reactions Promoted by Samarium Diiodide: Synthesis of 2,3-Dideuterioesters or -amides. <i>Chemistry - A European Journal</i> , 2001, 7, 4266-4271.	3.3	45
92	Synthesis of Isotopically Labeled (E)- $\hat{1}^2, \hat{1}^3$ -Unsaturated Esters with Total or High Diastereoselectivity by Using Samarium Diiodide. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 3897-3899.	13.8	33
93	Synthesis of (E)- $\hat{1}^2, \hat{1}^3$ -Unsaturated Esters and Amides with Total Selectivity Using Samarium Diiodide. <i>Angewandte Chemie - International Edition</i> , 2000, 39, 2773-2775.	13.8	52