Nominee's Biodata

Dr. Rodney A. Fernandes

[Birth Date: 19 June 1972]

Professor, Chemistry Department, IIT Bombay, Powai, Mumbai 400076, INDIA Tel: 022-25767174 Fax: 022-25767152 Email: rfernand@chem.iitb.ac.in

Positions, Education and Research Experience

July 2020 onwards: **Member UGPC**, IIT Bombay

August 2020 onwards: **Member Board of Studies**, Chemical Sciences (UG), Goa University. August 2017-August 2020: **Member Board of Studies**, Chemical Sciences, M.S. University of Baroda, Vadodara, Gujarat

August 2017-July 2018: **Dean Academic Programme and Dean Faculty Affairs**, IIT Goa (on deputation from IIT Bombay), January 09-14, 2018: **Acting Director, IIT Goa**

May 2015 onwards: **Professor.** Jan. 2011–May 2015: **Associate Professor,** August 2007–January 2011: **Assistant Professor,** Department of Chemistry, Indian Institute of Technology (IIT) Bombay.

September 2006–July 2007: **Investigator Titular A** (~ Assistant Professor), Instituto de Quimica, Universidad Nacional Autonoma de Mexico, Mexico D.F.

April 2006–June 2006: **Postdoctoral Research**, DFG Research Fellowship, Germany July 2004– March 2006: **Postdoctoral Research**, **Alexander von Humboldt Research Fellow** (**AvH**), with **Prof. Dr. Reinhard Brückner**, Institut für Organiche Chemie und Biochemie, Albert-Ludwigs-University, Freiburg, Germany.

January 2003–December 2003: **Postdoctoral Research Associate** with **Prof. Dr. Yoshinori Yamamoto**, Department of Chemistry, Graduate School of Science, Tohoku University, Sendai 980–8578, JAPAN.

July 1998– January 2003: **Ph. D. in Synthetic Organic Chemistry,** Pune University, Pune-411 007, INDIA. Research work carried out at the National Chemical Laboratory (NCL). Guide: Dr. Pradeep Kumar (Senior Scientist NCL, AvH Fellow). Thesis: "Asymmetric Dihydroxylation Approach to the Enantioselective Syntheses of Bioactive Molecules and PCC Mediated Oxidative Organic Transformation"

January 1998–June 1998: **Lecturer** in Organic Chemistry, Department of Chemistry, Goa University, Goa.

June 1995 – May 1997: M.Sc. Organic Chemistry, Goa University, Goa.

Class: Outstanding grade "O", 1st Rank in Chemistry Department, Goa University.

June 1992–May 1995: B.Sc. Dhempe College of Arts and Science, Miramar, Goa University,

Goa, First class with distinction, Goa State 2nd Rank, Goa University.

Affiliation to Scientific Bodies

Elected Fellow of Maharashtra Academy of Sciences (2016)

Life Member of Maharashtra Academy of Sciences

Life Member of Chemical Research Society of India (CRSI)

Life Member of Indian Society of Chemists and Biologists (ISCB)

Life Member of Indian Association of Chemistry Teachers (IACT)

Award and Honours

September 2019: 'Departmental Award for Excellence in Teaching', IIT Bombay

September 2019: 'Outstanding Reviewer Award' by the Journal Chemical Communication of RSC.

December 2017: **Delivered the 4th Professor S. C. Bhattacharya Memorial Lecture:** "Dead Ends and Detours: Pushing the Strategic Limits in Total Synthesis". Delivered at EDC Hall, Panaji, Goa. Hosted by Prof. S. K. Paknikar Research and Education Trust, 08th Dec, 2017

October 2016: Elected Fellow of Maharashtra Academy of Sciences (FMASc)

December 2004: **INSA-YOUNG SCIENTIST MEDAL AWARD 2004** (Chemical Sciences) by Indian National Science Academy, New Delhi, INDIA.

July 2004–March 2006: Alexander von Humboldt (AvH, Germany) Research Fellowship,

February 2003: **International Patent Award–Silver Medallion**, by NCL Research Foundation, India for US Patent. Patent No. 6376683, 2002. Pradeep Kumar and Rodney A. Fernandes.

January 2002: **Keerti Sangoram Endowment Award**: 'Best Research Scholar' of the Year 2001 (Chemical Sciences); NCL Research Foundation.

February 2001: **Dr. Rajappa Award**, Year 2000 for 'Best Research Paper' in Organic Chemistry; NCL Research Foundation.

July 1998-January 2003: JRF and SRF, CSIR New Delhi, India.

March 1997: Cleared the State Eligibility Test (SET) for Lectureship in Chemical Sciences by UGC (Pune University), INDIA.

January 1998: [1] The Goa University Prize for Highest Marks in Chemistry at M.Sc. Chemistry Examination, April 1997.

- [2] Prof. S. K. Paknikar Research and Educational Trust Endowment Prize for Highest Marks in M.Sc. Organic Chemistry Examination, April 1997, Goa University.
- [3] The Xth Indian Council of Chemistry Conference Endowment for Highest Marks in M.Sc. Organic Chemistry Examination, April 1997, Goa University.

December 1995: [1] Late Dattaram Gopinath Gude Memorial Prize- for standing 1st at final B.Sc. Examination with chemistry as principal subject from Dhempe College, Goa.

- [2] Late Shri Dattaram G. S. Gude alias Rajiv Gude Memorial Prize for securing highest marks in Chemistry at final B.Sc. Examination among the students of Dhempe College, Goa.
- [3] Late Mr. Dattaram Purshottam Kabadi Scholarship for highest marks at final B.Sc. Examination of Goa University, for a student from Dhempe College, Goa.
- [4] Shri Mark Fernandes Memorial Prize for highest percentage of marks at the final B.Sc. Examination among the students of Dhempe College, Goa.

Research Projects

No	Project title	From -To	Agency
1.	Intramolecular Allylic Amination, Oxygenation and Alkoxylation for New Molecular Scaffolds and Natural Products Synthesis	July 2021- July 2024	CSIR
2.	Lewis Acid Catalyzed Rearrangements in the Synthesis of Natural Products, Drug Candidates and Valuable Compounds	July 2018 - July 2021	DST- SERB
3.	Development of Cyclopentannulation and Dötz Benzannulation in the Synthesis of New Molecular Scaffolds and Natural Products	March 2014 - March 2017	DST

4.	Strategic Total Synthesis of Strained Medium-Ring-Sized Bioactive Molecules	Feb. 2014 - Feb. 2017	BRNS
5.	Development of Chiral π -Allylpalladium Catalysis: Synthesis of <i>N</i> -Heterocycles and New Molecular Scaffolds	Nov. 2013 – March2017	CSIR
6.	Development of Dimeric Fischer Carbene Complexes: Bidirectional Approach to the Synthesis of Naphthoquinone Natural Products	Dec. 2008 – Dec. 2011	DST
7.	Asymmetric Allylation of Carbonyl Derivatives through π -Allylpalladium: Synthesis of N-Heterocycles	Jan. 2009 – Jan 2012	CSIR
8.	Asymmetric Synthesis of Pyranonaphthoquinones through Dötz Annulation and Asymmetric Methods	Nov. 2009 – Nov. 2012	BRNS
9.	Synthetic Studies in Pyranonaphthoquinones Antibiotics	July 2008 – Jan 2012	INSA
10.	Equipment Grant, HPLC purchased	Aug. 2009 – Aug. 2010	AvH Germany
11.	Synthetic Studies towards Phenatic Acid B, Machillene and Chabrolonaphthoquinones	Sep. 2007 – March 2011	IRCC, IIT Bombay

List of Publications, Books and Patents

Total = 137

[96 publication in last 10 years]

Total: 137 Total citation: 2110	h-index: 25	i-10 index: 74
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No.	Publication Details as of 18 th September 2021	IF	Citati ons
137	Stereoselective Total Synthesis of Obolactones and 7',8'-Dihydroobolactones Deepak Saini, Praveen Kumar and Rodney A. Fernandes* New J. Chem. 2021, 45, DOI: 10.1039/D1NJ03990C	3.6	
136	Book Chapter : "Synthetic Approaches to Spiro Bis-THF Natural Products: Cephalosporolides, Penisporolides, Ascospiroketals and Pyrenolides" Rodney A. Fernandes,* Ashvin J. Gangani and Naveen Chandra. Accepted for 'Targets in Heterocyclic Systems – Chemistry and Properties' Vol. 25, Italian Chemical Society		
135	Book chapter: "Allylpalladium Complexes in Organic Synthesis" Rodney A. Fernandes, Praveen Kumar and Naveen Chandra. Accepted for Elsevier's Comprehensive Organometallic Chemistry IV, edited by Karsten Meyer, Dermot O'Hare and Gerard Parkin		
134	Synthesis of 5-Vinyl-2-isoxazolines by Palladium-Catalyzed Intramolecular <i>O</i> -Allylation of Ketoximes. Rodney A. Fernandes*, Ashvin J. Gangani, Arpita Panja <i>Org. Lett.</i> 2021 , 23, 6227	6.2	
133	Catalytic δ-Hydroxyalkynone Rearrangement in the Stereoselective Total Synthesis of Centrolobine, Engelheptanoxides A and C and Analogues Praveen Kumar, Rodney A. Fernandes,* Mohammad N. Ahmad, and Sidharth Chopra Tetrahedron 2021, 96, 132375	2.6	
132	Concise Stereoselective Synthesis of β -Hydroxy- γ -lactones: $(4R,5R)$ -4-Hydroxy- γ -decalactone from the Japanese Orange Fly and Enantiomers of Arachnid Harvestmen Isolates. Ashvin J. Gangani, Praveen Kumar and Rodney A. Fernandes* <i>J. Nat. Prod.</i> 2021 , 84, 120	4.1	1

121	Evaluation of Stratagins in Protecting Crown Free Synthesis of Natural Products A December	2.0	1
131	Evolution of Strategies in Protecting-Group-Free Synthesis of Natural Products: A Recent	3.0	1
	Update. Rodney A. Fernandes,* Praveen Kumar and Priyanka Choudhary		
400	Eur. J. Org. Chem. 2021, 711	0.0	
130	Advances in Cu and Ni-Catalyzed Chan-Lam-type Coupling: Synthesis of	3.6	3
	Diarylchalcogenides, Ar_2-X (X = S, Se, Te). Rodney A. Fernandes,* Amit Bhowmik and		
	Sandhya S. Yadav <i>Org. Biomol. Chem.</i> 2020 , <i>18</i> , 9583		
129	Muricatacin a Gateway Molecule to Higher Acetogenin Synthesis. Rodney A. Fernandes,*	4.6	
	Amit Bhowmik and Priyanka Choudhary <i>Chem. Asian J.</i> 2020, <i>15</i> , 3660.		
128	A Decade of Muricatacin Synthesis and Beyond. Rodney A. Fernandes,* Ashvin J. Gangani,	3.0	
	Anupama Kumari and Praveen Kumar Eur. J. Org. Chem. 2020, 6845.		
127	Three Decades of Disparlure and Analogue Synthesis. Rodney A. Fernandes,* Naveen	3.6	1
	Chandra and Ashvin J. Gangani New. J. Chem. 2020, 44, 17616.		
126	Asymmetric Synthesis of Catechol Pyran Isolated from <i>Plectranthus sylvestris</i> by β-	2.1	
120	Hydroxyalkynone Rearrangement. Rodney A. Fernandes* and Deepak Saini	2.1	
105	ChemistrySelect 2020, 5, 13160	C 4	40
125	Recent Advances in Wacker Oxidation: From Conventional to Modern Variants and	6.1	10
	Applications. Rodney A. Fernandes,* Amit K. Jha and Praveen Kumar		
	Catal. Sci. Technol. 2020, 10, 7448		
124	Emergence of 2,3,5-Trisubstituted Tetrahydrofuran Natural Products and Their Synthesis.	3.6	4
	Rodney A. Fernandes,* Dnyaneshwar A. Gorve and Ramdas S. Pathare		
	Org. Biomol. Chem. 2020, 18, 7002		
123	MnO ₂ as Terminal Oxidant in Wacker Oxidation of Homoallyl Alcohols and Terminal Olefins.	3.6	1
	Rodney A. Fernandes,* Gujjula V. Ramakrishna and Venkati Bethi		
	Org. Biomol. Chem. 2020, 18, 6115		
122	Evolution of Strategies in Paraconic Acids Synthesis. Rodney A. Fernandes,* Dipali A.	3.1	3
	Chaudhari and Amit K. Jha <i>Asian J. Org. Chem.</i> 2020 , <i>44</i> , 3970		·
121	Advances in Total Synthesis of Some 2,3,5-Trisubstituted Tetrahydrofuran Natural Products.	4.6	3
121	Rodney A. Fernandes,* Ramdas S. Pathare and Dnyaneshwar A. Gorve	4.0	0
	Chem. Asian. J. 2020, 15, 2815		
120		2.1	
120	(-)-β-Pinene-based π-Allylpalladium Complex-Catalyzed Asymmetric Allylation of Bis-Imines.	2.1	
110	Rodney A. Fernandes* and Jothi L. Nallasivam <i>ChemistrySelect</i> , 2020 , 5, 8301		
119	A Decade with Dötz Benzannulation in the Synthesis of Natural Products. Rodney A.	2.5	8
	Fernandes,* Anupama Kumari and Ramdas S. Pathare <i>Synlett</i> 2020 , 403 [Personal Account]		
118	Advances in Catalytic and Protecting-Group-Free Total Synthesis of Natural Products: A	6.2	5
	Recent Update. Rodney A. Fernandes* Praveen Kumar and Priyanka Choudhari		
	Chem. Commun. 2020 , <i>56</i> , 8569		
117	A Concise Synthesis of the Key Tetrahydrofuran Moieties of Caruifolin A and EBC-342.	3.0	
	Rodney A. Fernandes* and Venkati Bethi <i>Eur. J. Org. Chem.</i> 2020 , 6922		
116	Fischer Carbene Pentannulation with Alkynes Having Adjacent Carbonate or Acyloxy Groups:	6.2	2
	Synthesis of 3-Substituted 1-Indanones. Rodney A. Fernandes,* Sachin P. Gholap, Vijay P.	0	
	Chavan, Akeel S. Saiyed and Shubhankar Bhattacharyya <i>Org. Lett.</i> 2020 , <i>22</i> , 3438		
115	BX ₃ -Mediated Intermolecular Formation of Functionalized 3-Halo-1 <i>H</i> -indenes via Cascade	3.0	
113	Halo-Nazarov-Type Cyclization. Anupama Kumari and Rodney A. Fernandes*	3.0	
444	Synthesis 2020, 2245	2.0	
114	Room Temperature Nickel-Catalyzed Cross-Coupling of Aryl-Boronic Acids with Thiophenols:	3.6	6
	Synthesis of Diarylsulfides. Amit Bhowmik, Mahesh Yadav and Rodney A. Fernandes*		
	Org. Biomol. Chem. 2020, 18, 2447		
113	Metal-Free Annulative Hydrosulfonation of Propiolate Esters: Synthesis of 4-Sulfonates of	3.6	1
	Coumarins and Butenolides. Rodney A. Fernandes*, Ashvin J. Gangani and Rupesh A.		
	Kunkalkar New. J. Chem. 2020, 44, 3970		
112	The Potential of β-Hydroxy-γ-vinyl-γ-lactone in the Synthesis of Natural Products and Beyond.	3.0	2
	Rodney A. Fernandes* <i>Eur. J. Org. Chem.</i> 2020 , 634		_
111	A Chiron Approach to the Stereoselective Total Synthesis of Phomonol and Phytotoxic	3.0	1
' ' '	Nonenolides. Naveen Chandra and Rodney A. Fernandes* <i>Eur. J. Org. Chem.</i> 2020 , 6909	0.0	'
	None indices. Naveen Ghandra and Nouney A. Fernandes Eur. J. Org. Chem. 2020, 6909		

110	Iron(III)/O ₂ -Mediated Regioselective Oxidative Cleavage of 1-Arylbutadienes to	6.2	7
400	Cinnamaldehydes. Amit Bhowmik and Rodney A. Fernandes* <i>Org. Lett.</i> 2019 , <i>21</i> , 9203	0.0	
109	Catalytic Allylic Functionalization via π -Allyl Palladium Chemistry.	3.6	28
100	Rodney A. Fernandes* and Jothi L. Nallasivam <i>Org. Biomol. Chem.</i> 2019 , <i>17</i> , 8647	4.0	
108	A Catalytic Asymmetric Protecting-Group-Free Total Synthesis of (4S,5S)-4,8-Dihydroxy-3,4-	4.8	2
	dihydrovernoniyne and its Enantiomer. Gujjula V. Ramakrishna and Rodney A. Fernandes*		
407	J. Org. Chem. 2019, 84, 14127	4.0	
107	Protecting-Group-Free Total Synthesis of Chatenaytrienin-2. Rupesh A. Kunkalkar and	4.8	7
400	Rodney A. Fernandes* <i>J. Org. Chem.</i> 2019 , <i>84</i> , 12216	0.0	40
106	Total Synthesis of the Sensitive Triyne Natural Product (4S,5S)-4,8-Dihydroxy-3,4-	6.2	13
	dihydrovernoniyne and all its Stereoisomers. Gujjula V. Ramakrishna and Rodney A.		
405	Fernandes* <i>Org. Lett.</i> 2019 , <i>21</i> , 5827	0.4	•
105	A Step-Economic Synthesis of (S)-(-)-Juglomycin C and (S)-(-)-NHAB by Dötz	3.1	3
	Benzannulation and Convergent Deprotections. Amit Bhowmik, Sandip V. Mulay, and Rodney		
404	A. Fernandes* <i>Asian J. Org. Chem.</i> 2019 , <i>8</i> , 1534	4.0	
104	Tandem IBX-Promoted Primary Alcohol Oxidation/Opening of Intermediate β,γ-Diolcarbonate	4.6	5
	Aldehydes to (<i>E</i>)-γ-Hydroxy-α,β-enals. Anupama Kumari, Sachin P Gholap, Rodney A.		
400	Fernandes* <i>Chem. Asian. J.</i> 2019 , <i>14</i> , 2278	0.4	4
103	A Lewis Acid Catalyzed Phenolic Ether 'O to C' Rearrangement: Synthesis of 4-	3.1	1
	Aryldihydrocoumarins. Praveen Kumar, Rupesh A. Kunkalkar and Rodney A. Fernandes*		
102	Asian J. Org. Chem. 2019, 8, 1001 Menthane-Based Chloride Bridged η³-Bis-π-Allylpalladium Chloride Dimers: Catalytic	3.0	4
102	Asymmetric Allylation of Imines. Amit K. Jha and Rodney A. Fernandes*	3.0	4
	Eur. J. Org. Chem., 2019, 2857		
101	Metal-Free Bronsted Acid-Catalyzed Rearrangement of Hydroxyalkynones to 2,3-Dihydro-4 <i>H</i> -	4.8	7
101	pyran-4-ones: Total Synthesis of Obolactone and a Catechol Pyran Isolated from	4.0	,
	Plectranthus sylvestris. Sachin P. Gholap, Dashrath Jangid and Rodney A. Fernandes*		
	J. Org. Chem. 2019, 84, 3537		
100	Lewis Acid-Catalyzed Annulative Partial Dimerization of 3-Aryloxyacrylates to 4-Arylchroman-	6.2	3
100	2-ones: Synthesis of Analogues of Tolterodine, RORγ Inhibitor and a GPR40 Agonist. Rupesh	0.2	5
	A. Kunkalkar and Rodney A. Fernandes* <i>Chem. Commun.</i> 2019 , 55, 2313		
99	Synthetic Modifications of Bifunctional Homoallylamines: Synthesis of 2-Arylpiperidines, (<i>R</i>)-	1.8	
33	Anatabine and (<i>R</i>)-Anabasine. Jothi L. Nallasivam and Rodney A. Fernandes*	1.0	
	Synth. Commun. 2019, 49, 2815		
98	A Concise Stereoselective Synthesis of Naturally Occurring D-Xylo-C18-Guggultetrol and its	3.1	4
30	C2-Epimer. Naveen Chandra and Rodney A. Fernandes* <i>Asian J. Org. Chem.</i> 2019 , <i>8</i> , 532	5.1	7
97	A Process for Synthesis of Methyl Ketones by Wacker-Type Oxidation Reaction. Patent	PATENT	
37	Granted No. 314743, dated 26/06/2019. Patent Application Filed, No. 2965/MUM/2015.		
	Rodney A. Fernandes* and Dipali A. Chaudhari		
96	A Process for Preparation of Cephalosporolides E and F. Patent Granted No. 327987, dated	PATENT	
	23/12/2019. Patent Application Filed, No. 2595/MUM/2015. Rodney A. Fernandes,* Dipali A.		
	Chaudhari and Pullaiah Kattanguru		
95	Protecting Group Free Organic Synthesis: Improving Economy and Efficiency.	воок	
	Editor Rodney A. Fernandes, John Wiley & Sons, August 2018		11
94	A Novel Process for the Four Step Protecting Group Free Synthesis of (+)-Hagen's Gland	PATENT	
0 .	Lactones. Patent Granted No. 292674, dated 07/02/2018. Application filed No. 1908/MUM/		
	2012. Rodney A. Fernandes* and Pullaiah Kattanguru.		
		PATENT	
93	A Novel Process for the Three Step Protecting Group Free Synthesis of (+)-Cardiobutanolide.		
	Patent Granted No. 285997, dated 02/08/2017. Application filed No. 1780/MUM/2012.		
00	Rodney A. Fernandes* and Pullaiah Kattanguru	0.4	
92	Evolution of Total Syntheses of β-Hydroxy-γ-Lactones: Cardiobutanolide and Hagen's Gland	2.1	6
	Lactones. Rodney A. Fernandes,* Pullaiah Kattanguru, Mahesh B. Halle and Rupesh A. Kupkelker Chamistry Select 2017, 3, 6503		
91	Kunkalkar <i>ChemistrySelect</i> 2017 , <i>2</i> , 6503 Short Eight-Step Total Synthesis of Racemic Asteriscunolide C. Rodney A. Fernandes,* Vijay	1.8	1
91	P. Chavan and Arpita Panja <i>Synth. Commun.</i> 2017 , <i>47</i> , 2103	1.0	'
	T. Onavan and Aipita Fanja Synth Commun. 2011 , 47, 2103		

90	Recent Advances in Overman Rearrangement: Synthesis of Natural Products and Valuable	3.6	33
	Compounds. Rodney A. Fernandes,* Pullaiah Katanguru, Sachin P. Gholap and Dipali A.		
	Chaudhari <i>Org. Biomol. Chem.</i> 2017 , <i>15</i> , 2672		
89	A Protecting-Group-Free Synthesis of (+)-Nephrosteranic, (+)-Protolichesterinic, (+)-	3.6	17
	Nephrosterinic, (+)-Phaseolinic, (+)-Rocellaric Acids and (+)-Methylenolactocin. Jothi L.		
	Nallasivam and Rodney A. Fernandes* Org. Biomol. Chem. 2017, 15, 708		
88	Pd-Catalyzed Site-Selective Mono Allylic Substitution and Bis-Arylation by Directed Allylic C-	15.2	22
	H Activation: Synthesis of anti-γ-(Aryl,Styryl)-β-Hydroxy Acids and Highly Substituted		
	Tetrahydrofurans. Jothi L. Nallasivam and Rodney A. Fernandes*		
	J. Am. Chem. Soc. 2016, 138, 13238		
87	Traceless OH-directed Wacker Oxidation-Elimination, an Alternative to Wittig	4.8	13
	Olefination/Aldol Condensation: One-pot Synthesis of α,β-Unsaturated and Non-conjugated		
	Ketones from Homoallyl Alcohols. Venkati Bethi and Rodney A. Fernandes*		
	J. Org. Chem. 2016, 81, 8577		
86	Hypervalent Iodine as a Terminal Oxidant in Wacker-type Oxidation of Terminal Olefins to	4.8	47
	Methyl Ketones. Dipali A. Chaudhari and Rodney A. Fernandes*		
	J. Org. Chem. 2016, 81, 2113	0.0	10
85	De Novo Protecting-Group-Free Total Synthesis of (+)-Muricadienin, (+)-Ancepsenolide and	3.6	16
	(+)-3-Hexadesyl-5-methylfuran-2(5 <i>H</i>)-one. Rupesh A. Kunkalkar, Debasish Laha and Rodney		
0.4	A. Fernandes* Org. Biomol. Chem. 2016, 14, 9072	2.4	4
84	A Concise Synthesis of (-)-Incrustoporin and its Analogues by Pd-catalyzed Suzuki-Miyaura	2.1	4
	Coupling from γ-Vinyl- γ-butyrolactone.		
83	Jothi L. Nallasivam and Rodney A. Fernandes* <i>ChemistrySelect</i> 2016 , <i>1</i> , 5137 Total Synthesis of Marine Natural Products, Cephalosporolides. Mahesh B. Halle and Rodney	3.1	10
03	A. Fernandes* <i>Asian J. Org. Chem.</i> 2016 , 5, 839	3.1	10
82	Dimeric Pyranonaphthoquinones: Isolation, Bioactivity, Biosynthesis and Synthetic	3.0	3
02	Approaches. Rodney A. Fernandes,* Pradnya H. Patil and Dipali A. Chaudhari	3.0	3
	Eur. J. Org. Chem. 2016, 5778		
81	Total Synthesis of Unique <i>anti</i> , <i>anti</i> -4-Hydroxy-5-(1-hydroxyalkyl)-γ-lactones, Polyporolide and	2.6	3
01	Mupirocine H. Rodney A. Fernandes* and Mahesh B. Halle	2.0	3
	Tetrahedron Lett. 2016 , 57, 3694		
80	A Concise Synthesis of $(4R,5R)$ -(-)-Muricatacin and $(4R,5R)$ -L-(-)-Factor from D-Glucono- δ -	2.6	11
00	Lactone. Dipali A. Chaudhari, Arun B. Ingle and Rodney A. Fernandes*	2.0	
	Tetrahedron: Asymmetry 2016, 27, 114		
79	A Concise Protecting-Group-Free Synthesis of Cephalosporolides E and F. Dipali A.	3.0	25
. •	Chaudhari, Pullaiah Kattanguru and Rodney A. Fernandes*		
	RSC Advances 2015, 5, 42131		
78	Unimolecular Tetrakis-Piperidine-4-ol: an Efficient Ligand for Copper and Amine Free	3.0	6
	Sonogashira Coupling. Pradnya H. Patil and Rodney A. Fernandes*		
	RSC Advances 2015 , <i>5</i> , 54037		
77	Synthetic Studies toward Actinorhodin and γ-Actinorhodin by Homo-coupling Strategy:	3.0	8
	Synthesis of Hemiactinorhodin and Hemi-γ-actinorhodin. Sandip V. Mulay, Amit Bhowmik,		
	Rodney A. Fernandes* Eur. J. Org. Chem. 2015, 4931		
76	A Stereoselective Synthesis of the Reported Structure of Polyporolide	3.4	8
	Pradnya H. Patil and Rodney A. Fernandes* RSC Advances 2015, 5, 49189		
75	Development of Unimolecular Tetrakis-Piperidine-4-ol as New Ligand for Suzuki-Miyaura	3.0	17
	Cross Coupling Reaction: Synthesis of Incrustoporin and Preclamol.		
	Jothi L. Nallasivam and Rodney A. Fernandes* <i>Eur. J. Org. Chem.</i> 2015, 3558		
74	Formal Synthesis of the Human Rhinovirus 3C-Protease Inhibitor (–)-Thysanone. Sandip V.	3.1	6
	Mulay, Sachin P. Gholap and Rodney A. Fernandes* Asian J. Org. Chem. 2015, 4, 560		
73	Unimolecular 4-Hydroxy Piperidines: New Ligands for Copper Catalyzed N-Arylation.	3.1	
	Pradnya H. Patil, Jothi L. Nallsivam and Rodney A. Fernandes*		11
	Asian J. Org. Chem. 2015, 4, 552		

70		I = -	40
72	Synthetic Studies on Actinorhodin and γ-Actinorhodin: Synthesis of Deoxyactinorhodin and	5.7	19
	Deoxy-γ-Actinorhodin/Crisamicin A Isomer. Sandip V. Mulay and Rodney A. Fernandes*		
	Chem. Eur. J. 2015, 21, 4842		
71	A Cascade Aza-Cope/Aza-Prins Cyclization to Piperidine Derivatives. Jothi L. Nallasivam and Rodney A. Fernandes* <i>Eur. J. Org. Chem.</i> 2015 , 2012	3.0	12
70	Tandem Benzylic Oxidative Dihydroxylation of α -Vinyl and α -Alkenylbenzyl Alcohols. Rodney A. Fernandes* and Pullaiah Kattanguru <i>Helv. Chim. Acta</i> 2015 , <i>98</i> , 92	1.4	3
69	A Relay Ring-opening/Double Ring-closing Metathesis Strategy for the Bicyclic Macrolide-butenolide Core Structures. Mahesh B. Halle and Rodney A. Fernandes* RSC Advances 2014, 4, 63342	3.4	11
68	An Expedient Osmium(VI)/K ₃ Fe(CN) ₆ -Mediated Selective Oxidation of Benzylic, Allylic and Propargylic Alcohols. Rodney A. Fernandes* and Venkati Bethi <i>RSC Advances</i> 2014 , <i>4</i> , 40561	3.4	19
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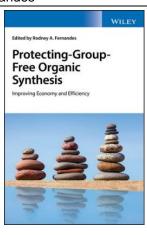
Books

1] A book titled "Protecting-Group-Free Organic Synthesis: Improving Economy and Efficiency" has been edited by me.

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Published: online as e-copy on 25th May 2018 Hardcopy to be published on 3rd August 2018 Also contributed three book chapters in this book.



- **2] Book chapter: "Allylpalladium Complexes in Organic Synthesis"** Rodney A. Fernandes, Praveen Kumar, Naveen Chandra. Accepted for Elsevier's Comprehensive Organometallic Chemistry IV, edited by Karsten Meyer, Dermot O'Hare and Gerard Parkin.
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Students Supervision

i. Post-doctoral Fellows Mentored: 07 including 2 ongoing.

ii. Doctoral Research Guidance: 14 completed, 15 ongoing.

iii. Masters' Research Guidance: 25 including 1 ongoing.

Lectures/Seminars Delivered (National and International): 82