

## PUBLICATIONS

### *Books*

[2] Catalytic Asymmetric Reactions of Conjugated Nitroalkenes, **I. N. N. Namboothiri**, M. Bhati, M. Ganesh, B. Hosamani, T. V. Baiju, S. Manchery, K. Bera, CRC Press, Taylor & Francis Group, Boca Raton, USA, **2020**.

[1] Organic Syntheses Based on Named Reactions, Third Edition: A Practical Guide, A. Hassner and **I. N. N. Namboothiri**, Elsevier, Oxford, UK, **2012**.

### *Book Chapters/Monographs*

[3] Hypervalent Iodine(III) Reagents in the Synthesis of Heterocyclic Compounds, R. Budhwan, G. Garg, **I. N. N. Namboothiri** and S. Murarka, *Targets in Heterocyclic Systems-Chemistry and Properties*, Chapter 2, Italian Society of Chemistry, **2020**, 23, 27-52 ([Invited Chapter](#)).

[2] Isoxazolines from Nitro Compounds: Synthesis and Applications, **I. N. N. Namboothiri** and N. Rastogi, *Top. Heterocycl. Chem., Synthesis of Heterocycles via Cycloadditions I*, A. Hassner, Ed., Springer-Verlag, Germany, **2008**, 12, 1-44 ([Invited Chapter](#)).

[1] Stereoselective Intramolecular 1,3-Dipolar Cycloadditions, **I. N. N. Namboothiri** and A. Hassner, *Top. Curr. Chem. Stereoselective Heterocyclic Synthesis III*, P. Metz, Ed., Springer-Verlag, Germany, **2001**, 216, 1-49 ([Invited Chapter](#)).

### *Journal Reviews*

[13] Synthesis of Functionalized Pyrazoles via 1,3-Dipolar Cycloaddition of  $\alpha$ -Diazo- $\beta$ -ketophosphonates, Sulfones and Esters with Electron-Deficient Alkenes, T. V. Baiju and **I. N. N. Namboothiri**, *Chem. Records* **2017**, 17, 939-955 ([Invited Account](#)).

[12]  $\alpha$ -Functionalization of Nitroalkenes and Its Applications in Organic Synthesis, D. K. Nair, T. Kumar and **I. N. N. Namboothiri**, *Synlett* **2016**, 27, 2425-2442 (Account).

[11] Recent Developments in Tsuji-Wacker Oxidation, T. V. Baiju, E. Gravel, E. Doris and **I. N. N. Namboothiri**, *Tetrahedron Lett.* **2016**, 57, 3993-4000 ([Invited Digest](#)).

- [10] Catalytic Asymmetric Reactions and Synthesis of Quinones, B. Hosamani, M. F. Ribeiro, E. N. da Silva Júnior and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2016**, *14*, 6913-6931 ([Invited Review](#)).
- [9] Supramolecular Assembly of Gold Nanoparticles on Carbon Nanotubes and Catalysis of Selected Organic Transformations, E. Gravel, **I. N. N. Namboothiri** and E. Doris, *Synlett* **2016**, *27*, 1179-1186 ([Invited Account](#)).
- [8] Carbon Nanotubes and Heterogeneous Catalysis, E. Gravel, D. Bernard, **I. N. N. Namboothiri** and E. Doris, *Actualité Chimique* **2015**, 393-394, 82-88.
- [7] Asymmetric Synthesis of Quaternary  $\alpha$ -Amino Acids and Their Phosphonate Analogs, K. Bera, and **I. N. N. Namboothiri**, *Asian J. Org. Chem.* **2014**, *3*, 1234-1260 ([Invited Review](#)).
- [6] Part II: Nitroalkenes in the Synthesis of Heterocyclic Compounds, A. Z. Halimehjani, **I. N. N. Namboothiri** and S. E. Hooshmand, *RSC Advances* **2014**, *4*, 51794-51829 ([Invited Review](#)).
- [5] Part I: Nitroalkenes in the Synthesis of Heterocyclic Compounds, A. Z. Halimehjani, **I. N. N. Namboothiri** and S. E. Hooshmand, *RSC Advances* **2014**, *4*, 48022-48084 ([Invited Review](#)).
- [4] Nitroalkenes in the Synthesis of Carbocyclic Compounds, A. Z. Halimehjani, **I. N. N. Namboothiri** and S. E. Hooshmand, *RSC Advances* **2014**, *4*, 31261-31299 ([Invited Review](#)).
- [3] Asymmetric Synthesis of  $\gamma$ -Aminophosphonates: The Bio-isosteric Analogs of  $\gamma$ -Aminobutyric Acid, K. Bera, D. Nadkarni and **I. N. N. Namboothiri**, *J. Chem. Sci.* **2013**, *125*, 443-465 ([Appeared on the cover page of the journal](#)).
- [2] Advances in Carbon Nanotube-Noble Metal Catalyzed Organic Transformations, J. John, E. Gravel, **I. N. N. Namboothiri** and E. Doris, *Nanotechnol. Rev.* **2012**, *1*, 515-539.
- [1] Morita-Baylis-Hillman and Rauhut-Currier Reactions of Conjugated Nitroalkenes, K. Kaur and **I. N. N. Namboothiri**, *Chimia* **2012**, *66*, 913-920 ([Invited Account](#)).

## Journal Articles

2021

[139] Synthesis and Energetic Properties of Homocubane Based High Energy Density Materials, S. Lal, A. Chowdhury, N. Kumbhakarna, S. Nandagopal, A. Kumar, **I. N. N. Namboothiri**, *Org. Chem. Front.* **2021**, *8*, 531-548.

2020

[138] Pentacycloundecane (PCUD)-Based Cage Frameworks as Potential Energetic Materials: Syntheses and Characterization, S. Kotha, S. R. Cheekatla, S. Lal, L. Mallick, N. Kumbhakarna, A. Chowdhury, **I. N. N. Namboothiri**, *Asian J. Org. Chem.* **2020**, *9*, 2116-2126.

[137] A Morita-Baylis-Hillman Pathway to Wittig Products: One-Pot Transformation of Nitroalkylideneoxindoles to Oxindolylidene-Carboxylates, L. Satham, C. S. Sankara, **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2020**, 6903-6908.

[136] Droplet Combustion Studies on Novel Cage Hydrocarbons Using Color-Ratio Pyrometry, A. Sankaranarayanan, S. Lal, R. Sasidharakurup, **I. N. N. Namboothiri**, A. Chowdhury, N. Kumbhakarna, *Fuel* **2020**, *282*, 118816.

[135] Synthesis of Indenofurans, Benzofurans and Spiro-Lactones via Hauser-Kraus Annulation Involving 1,6-Addition of Phthalide to Quinone Methides, P. Basu, N. Satam, **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2020**, *18*, 5677-5687.

[134] Substrate Oriented Selectivity in the Mg-Mediated Conjugate Addition of Bromoform to Electron Deficient Alkenes, **I. N. N. Namboothiri**, N. Satam, S. Nemu, G. N. Gururaja, *Org. Biomol. Chem.* **2020**, *18*, 5697-5707.

[133] Strategies Towards Potent Trypanocidal Drugs: Application of Rh-Catalyzed [2 + 2] Cycloadditions, Sulfonyl Phthalide Annulation and Nitroalkene Reactions for the Synthesis of Substituted Quinones and Their Evaluation Against *Trypanosoma cruzi*, J. M. Wood, N. S. Satam, R. G. Almeida, V. S. Cristani, D. P. de Lima, L. Dantas-Pereira, K. Salomao, R. F. S. Menna-Barreto, **I. N. N. Namboothiri**, J. F. Bower, E. N. da Silva Jr, *Bioorg. Med. Chem.* **2020**, *28*, 11556.

[132] Synthesis of Densely Substituted Sulfonylfurans and Dihydrofurans via Cascade Reactions of  $\alpha$ -Functionalized Nitroalkenes with  $\beta$ -Ketosulfones, V. Mane, S. T.

Sivanandan, R. G. Santana, A. Beatriz, E. N. da Silva Junior and **I. N. N. Namboothiri**, *J. Org. Chem.* **2020**, *85*, 8825-8843.

[131] Synthesis of Tetrahydrothiopyrano[2,3-*b*]indoles via [3+3] Annulation of Nitroallylic Acetates with Indoline-2-thiones, P. Basu, C. Hazra, T. V. Baiju and **I. N. N. Namboothiri**, *New J. Chem.* **2020**, *44*, 1389-1399.

[130] Stereoselective Synthesis of 2-Hydrazino-2,3-Dihydrofurans *via* Cascade Michael Addition-Substitution Involving Reaction of Curcumin and Other 1,3-Dicarbonyls with  $\alpha$ -Hydrazinonitroalkenes, K. Bera, N. Ayyagari, N. Satam and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2020**, *18*, 140.

## 2019

[129] Base and Catalyst-Free Synthesis of Nitrobenzodiazepines *via* a Cascade N-Nitroallylation-Intramolecular Aza-Michael Addition involving *o*-Phenylenediamines and Nitroallylic Acetates, D. K. Nair, S. T. Sivanandan and **I. N. N. Namboothiri**, *Tetrahedron* **2019**, *75*, 130761.

[128] Role of Amphiphilic [Metal:Chelator] Complexes in a Non-Chromatographic Antibody Purification Platform, G. Dhandapani, D. K. Nair, R. R. Kale, E. Wachtel, **I. N. N. Namboothiri** and G. Patchornik, *J. Chromatography B*, **2019**, *1133*, 121830.

[127] Droplet Combustion Studies on Two Novel Energetic Propellants, An RP-1 Surrogate Fuel, and Their Blends, A. Sankaranarayanan, S. Lal, I. N. N. Namboothiri, R. Sasidharakurup, A. Chowdhury, N. R. Kumbhakarna, *Fuel* **2019**, *255*, 115836.

[126] Synthesis of Spiro- and Fused Heterocycles via (4+4) Annulation of Sulfonylphthalide with *o*-Hydroxystyrenyl Derivatives, A. Suresh, T. V. Baiju, T. Kumar, and **I. N. N. Namboothiri**, *J. Org. Chem.* **2019**, *84*, 3158-3168.

[125] Deacylative 1,6-Addition of Bestmann-Ohira Reagent to *p*-Quinone Methides for the Synthesis of  $\alpha$ -Diazo- $\beta$ -diarylphosphonates and *cis*-Stilbenyl Phosphonates, S. Pati and **I. N. N. Namboothiri**, *Tetrahedron* **2019**, *75*, 2246-2253.

[124] A General Platform for Antibody Purification Utilizing Engineered-Micelles, G. Dhandapani, A. Howard, T. V. Truong, T. V. Baiju, E. Kesselman, N. Friedman, E. Wachtel, M. Sheves, D. Danino, **I. N. N. Namboothiri** and G. Patchornik, *mAbs* **2019**, *11*, 583-592.

[123] Controlled Micelle Conjugation via Charged Peptide Amphiphiles, T. V. Truong, G. Dhandapani, B. Hosamani, T. V. Baiju, M. Ghosh, E. Wachtel, M. Sheves, **I. N. N. Namboothiri** and G. Patchornik, *J. Peptide Sci.* **2019**, *25*, e3174, doi: 10.1002/psc.3174.

## 2018

[122] Synthesis of Functionalized Thieno[2,3-b]indoles via One-pot Reaction of Indoline-2-thiones with Morita–Baylis–Hillman and Rauhut–Currier Adducts of Nitroalkenes, V. Mane T. V. Baiju and **I. N. N. Namboothiri**, *ACS Omega* **2018**, *3*, 17617.

[121] Synthesis of Functionalized Arenopyrans and Arenylsulfanes via Reaction of Nitroallylic Acetates with Arenols and Arenethiols, P. Basu, R. Sikdar, T. Kumar and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2018**, 5735-5743; **2020**, 5469-5470.

[120] Cubane Decomposition Pathways: A Comprehensive Study, B. Shyamala, S. Lal, A. Chowdhury, **I. N. N. Namboothiri** and N. Kumbhakarna, *Combustion and Flame* **2018**, *197*, 111-119.

[119] (3+3) Annulation of Nitroallylic Acetates with Stabilized Sulfur Ylides for the Synthesis 2-Aryl Terephthalates, L. Satham and **I. N. N. Namboothiri**, *J. Org. Chem.* **2018**, *83*, 9471-9477.

[118] 1,3-Dipolar Cycloaddition of Chalcones and Arylidene-1,3-dicarbonyls with Diazosulfone for the Regioselective Synthesis of Functionalized Pyrazoles and Pyrazolines, D. Nair, P. Pavashe and **I. N. N. Namboothiri**, *Tetrahedron* **2018**, *74*, 2716-2724.

[117] Quinonoid Compounds *via* Reactions of Lawsone and 2-Aminonaphthoquinone with  $\alpha$ -Bromonitroalkenes and Nitroallylic Acetates: Structural Diversity by C-ring Modification and Cytotoxic Evaluation against Cancer Cells, T. V. Baiju, R. G. Almeida, S. T. Sivanandan, C. A. de Simone, L. M. Brito, B. C. Cavalcanti, C. Pessoa, **I. N. N. Namboothiri** and E. N. da Silva Júnior, *Eur. J. Med. Chem.* **2018**, *151*, 686-704.

## 2017

[116] One-Pot Construction of Functionalized Spiro-Dihydronaphthoquinone-Oxindoles Via Hauser-Kraus Annulation of Sulfonylphthalide with 3-Alkylideneoxindoles, C. Sivasankara, L. Satham and **I. N. N. Namboothiri**, *J. Org. Chem.* **2017**, *82*, 12939-12944.

- [115] Synthesis of Aminophenanthrenes and Benzoquinolines via Hauser-Kraus Annulation of Sulfonyl Phthalide with Rauhut-Currier Adducts of Nitroalkenes, T. Kumar, V. Mane and **I. N. N. Namboothiri**, *Org. Lett.* **2017**, *19*, 4283-4286.
- [114] Selective Conversion of Nitroarenes to N-aryl Hydroxylamines Catalysed by Carbon Nanotube-Supported Nickel(II) Hydroxide, P. Prakash, D. D. Masi, V. Geertsen, F. Miserque, H. Li, **I. N. N. Namboothiri**, E. Gravel and E. Doris, *Chemistry Select* **2017**, *2*, 5891-5894.
- [113] Regio- and Diastereoselective Synthesis of Dihydropyridopyrimidines *via* Cascade Reactions of 2-Aminopyridines with Morita-Baylis-Hillman Bromides of Nitroalkenes, L. Satham and **I. N. N. Namboothiri**, *J. Org. Chem.* **2017**, *82*, 6482-6488.
- [112] Synthesis of Quinone-Based N-Sulfonyl-1,2,3-triazoles: Chemical Reactivity of Rh(II) Azavinyl Carbenes and Antitumor Activity, W. O. Valença, T. V. Baiju, F. G. Brito, Maria H. Araujo, Claudia Pessoa, B. C. Cavalcanti, C. A. de Simone, C. Jacob, **I. N. N. Namboothiri** and E. N. da Silva Júnior, *Chemistry Select* **2017**, *2*, 4301-4308.
- [111] Synthesis of Fused Cyanopyrroles and Spirocyclopropanes *via* Addition of N-Ylide to Chalconimines, S. P. Midya, E. Gopi, N. Satam and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2017**, *16*, 3616-3627 ([Hot article and one of the top 10 articles published in Org. Biomol. Chem. in 2017](#)).
- [110] Direct and Co-catalytic Oxidation of Hydroxylamines to Nitrones Promoted by Rhodium Nanoparticles Supported on Carbon Nanotubes, P. Prakash, E. Gravel, D.-V. Nguyen, **I. N. N. Namboothiri** and E. Doris, *ChemCatChem* **2017**, *9*, 2091-2094 ([Very Important Paper](#)).
- [109] Synthesis of Annulated Oxa-triquinanes and Oxa-diquinanes via Cascade Michael Addition-Intramolecular Alkylation Involving  $\alpha$ -Halodicyclopentadienones, S. Lal, A. Chowdhury and **I. N. N. Namboothiri**, *Tetrahedron* **2017**, *73*, 1297-1305.
- [108] Theoretical Studies on the Propulsive and Explosive Performance of Strained Polycyclic Cage Compounds, L. Mallick, S. Lal, S. Reshmi, **I. N. N. Namboothiri**, A. Chowdhury and N. Kumbhakarna, *New J. Chem.* **2017**, *41*, 920-930 ([Appeared on the cover page of the journal](#)).

- [107] Direct and Co-Catalytic Oxidative Aromatization of 1,4-Dihydropyridines and Related Substrates Using Gold Nanoparticles Supported on Carbon Nanotubes, P. Prakash, E. Gravel, H. Li, **I. N. N. Namboothiri**, and E. Doris, *Catal. Sci. Tech.* **2016**, *6*, 6476-6479.
- [106] Membrane Protein Crystallization in Micelles Conjugated by Nucleoside Base-Pairing: A Different Concept, B. Hosamani, R. Kale, H. Sharma, E. Wachtel, E. Kesselman, D. Danino, N. Friedman, M. Sheves, **I. N. N. Namboothiri** and G. Patchornik, *J. Struct. Biol.* **2016**, *195*, 379-386 ([Appeared on the front cover page of the journal](#)).
- [105] Effect of Curcumin Analogs on  $\alpha$ -Synuclein Aggregation and Cytotoxicity, N. N. Jha, D. Ghosh, S. Das, A. Anoop, R. S. Jacob, P. K. Singh, N. Ayyagari, **I. N. N. Namboothiri** and S. Maji, *Scientific Reports* **2016**, *6*, 28511/1-28511/15.
- [104] Synthesis and Antitumor Activity of Selenium-Containing Quinone-Based Triazoles Possessing Two Redox Centres, and Their Mechanistic Insights, E. H. G. da Cruz, M. A. Silvers, G. A. M. Jardim, J. M. Resende, B. C. Cavalcanti, I. S. Bomfim, C. Pessoa, C. A. de Simone, G. V. Botteselle, A. L. Braga, D. K. Nair, **I. N. N. Namboothiri**, D. A. Boothman and E. N. da Silva Júnior, *Eur. J. Med. Chem.* **2016**, *122*, 1-16.
- [103] Enantioselective Synthesis of Quaternary  $\alpha$ -Amino Acids via L-tert-Leucine-Derived Squaramide Catalyzed Conjugate Addition of  $\alpha$ -Nitrocarboxylates to Enones, K. Bera, N. S. Satam and **I. N. N. Namboothiri**, *J. Org. Chem.* **2016**, *81*, 5670-5680.
- [102] Regioselective Synthesis of Pyrazole and Pyridazine Esters from Chalcones and  $\alpha$ -Diazo- $\beta$ -ketoesters, D. Nair, P. Pavashe, S. Katiyar and **I. N. N. Namboothiri**, *Tetrahedron Lett.* **2016**, *57*, 3146-3149.
- [101] Hauser-Kraus Annulation of Phthalides with Nitroalkenes for the Synthesis of Fused and Spiro-heterocycles, T. Kumar, N. S. Satam and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2016**, 3316-3321 ([Commentary by V. Snieckus, M. A. Jalil Miah, SYNFACTS 2016, 12, 1016](#)).
- [100] Supramolecular Assembly of Gold Nanoparticles on Carbon Nanotubes: Application to the Catalytic Oxidation of Hydroxylamines, N. Shah, P. Basu, P. Prakash, S. Donck, E. Gravel, **I. N. N. Namboothiri** and E. Doris, *Nanomaterials* **2016**, *6*, 37/1-37/8.

[99] Carbon Nanotube–Ruthenium Hybrids for the Partial Reduction of 2-Nitrochalcones: An Easy Access to Quinoline *N*-oxides, P. Basu, P. Prakash, E. Gravel, N. Shah, K. Bera, E. Doris and **I. N. N. Namboothiri**, *ChemCatChem* **2016**, *8*, 1298-1302.

[98] Synthesis of Hydrazinoheterocycles from Morita-Baylis-Hillman Adducts of Nitroalkenes with Azodicarboxylates, V. Mane, J. Pandey, N. Ayyagari, C. Dey, R. Kale and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2016**, *14*, 2427-2438.

## 2015

[97] Polydiacetylene Nanotubes in Heterogeneous Catalysis: Application to the Gold-Mediated Oxidation of Silanes, E. Villemin, E. Gravel, D. Jawale, P. Prakash, **I. N. N. Namboothiri**, E. Doris, *Macromol. Chem. Phy.* **2015**, *216*, 2398-2403 ([Appeared on the front cover page of the journal](#)).

[96] A Multi-Walled Carbon Nanotube/Poly-2,6-Dichlorophenolindophenol Film Modified Carbon Paste Electrode for the Amperometric Determination of L-Tyrosine, O. J. D'Souza, R. J. Mascarenhas, A. K. Satpati, **I. N. N. Namboothiri**, S. Detriche, Z. Mekhalif, J. Delhalle, *RSC Adv.* **2015**, *5*, 91472-91481.

[95] Synthesis and Energetic Properties of High-nitrogen Substituted Bishomocubanes, S. Lal, L. Mallick, S. Rajkumar, O. P. Oommen, S. Reshmi, N. Kumbhakarna, A. Chowdhury, **I. N. N. Namboothiri**, *J. Mater. Chem. A* **2015**, *3*, 22118-22128.

[94] Imidazoles from Nitroallylic Acetates and  $\alpha$ -Bromonitroalkenes with Amidines: Synthesis and Trypanocidal Activity Studies, E. Gopi, T. Kumar, R. F. S. Menna-Barreto, W. O. Valenca, E. N. da Silva Junior, **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2015**, *13*, 9862-9871.

[93] One-Pot Regioselective Synthesis of Functionalized and Fused Furans from Morita-Baylis-Hillman and Rauhut-Currier Adducts of Nitroalkenes, V. Mane, T. Kumar, S. Pradhan, S. Katiyar, **I. N. N. Namboothiri**, *RSC Advances* **2015**, *5*, 69990-69999.

[92] Mild and Selective Catalytic Oxidation of Organic Substrates by a Carbon Nanotube-Rhodium Nanohybrid, S. Donck, E. Gravel, A. Li, P. Prakash, N. Shah, J. Leroy, H. Li, **I. N. N. Namboothiri** and E. Doris, *Catal. Sci. Tech.* **2015**, *5*, 4542-4546.

[91] Tsuji-Wacker Oxidation of Terminal Olefins Using a Palladium-Carbon Nanotube Nanohybrid, S. Donck, E. Gravel, N. Shah, D. V. Jawale, E. Doris and **I. N. N. Namboothiri**, *ChemCatChem* **2015**, *7*, 2318-2322.



- [90] Deoxygenation of Amine *N*-Oxides using Gold Nanoparticles Supported on Carbon Nanotubes, S. Donck, E. Gravel, N. Shah, D. V. Jawale, E. Doris, and **I. N. N. Namboothiri**, *RSC Advances* **2015**, *5*, 50865-50868.
- [89] Cooperative Dehydrogenation of *N*-Heterocycles Using a Carbon Nanotube-Rhodium Nanohybrid, D. V. Jawale, E. Gravel, N. Shah, V. Geertsen, H. Li, **I. N. N. Namboothiri** and E. Doris, *Chem. Eur. J.* **2015**, *21*, 7039-7042.
- [88] Room Temperature Suzuki Coupling of Aryl Iodides, Bromides, and Chlorides Using a Heterogeneous Carbon Nanotube-palladium Nanohybrid Catalyst, D. V. Jawale, E. Gravel, C. Boudet, N. Shah, V. Geertsen, H. Li, **I. N. N. Namboothiri**, E. Doris, *Catal. Sci. Tech.* **2015**, *5*, 2388-2392.
- [87] Quinine-Derived Thiourea and Squaramide Catalyzed Conjugate Addition of  $\alpha$ -Nitrophosphonates to Enones: Asymmetric Synthesis of Quaternary  $\alpha$ -Aminophosphonates, K. Bera and **I. N. N. Namboothiri**, *J. Org. Chem.* **2015**, *80*, 1402-1413.
- [86] Synthesis of Imidazoles via Cascade Reaction of Nitroallylic Acetates with Amidines and Studies on Their Trypanocidal Activity, T. Kumar, D. Verma, R. F. S. Menna-Barreto, W. O. Valença, E. N. da Silva Júnior and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2015**, *13*, 1996-2000.
- [85] Selective Conversion of Nitroarenes Using a Carbon Nanotube-Ruthenium Nanohybrid, D. V. Jawale, E. Gravel, C. Boudet, N. Shah, V. Geertsen, H. Li, **I. N. N. Namboothiri** and E. Doris, *Chem. Commun.* **2015**, *51*, 1739-1742 ([Commentary by Y. Uozumi, Y. M. A. Yamada and A. Ohno, SYNFACTS 2015, 11, 442](#)).
- [84] Synthesis of Quinoxalines *via* Carbon Nanotube-Gold Nanohybrid Catalyzed Cascade Reaction of Vicinal Diols and Ketoalcohols with Diamines, N. Shah, E. Gravel, D. V. Jawale, E. Doris, and **I. N. N. Namboothiri**, *ChemCatChem* **2015**, *7*, 57-61.
- [83] Naphthoquinone-based Chalcone Hybrids and Derivatives: Synthesis and Potent Activity Against Cancer Cell Lines, G. A. M. Jardim, T. T. Guimarães, M. C. F. R. Pinto, B. C. Cavalcanti, K. M. de Farias, C. Pessoa, C. C. Gatto, D. K. Nair, **I. N. N. Namboothiri**, and E. N. da Silva Júnior, *MedChemComm* **2015**, *6*, 120-130.

[82] Engineered-membranes and Engineered-micelles as Efficient Tools for Purification of Membrane Proteins, S. Dutta, D. K. Nair, **I. N. N. Namboothiri**, E. Wachtel, N. Friedman, M. Sheves and G. Patchornik, *Analyst* **2015**, *140*, 204-212.

## 2014

[81] Nitro-substituted Bishomocubanes: Synthesis, Characterization and Applications as Energetic Materials, S. Lal, S. Rajkumar, A. Tare, S. Reshmi, A. Chowdhury and **I. N. N. Namboothiri**, *Chem. Asian J.* **2014**, *9*, 3533-3541.

[80] Co-catalytic Oxidative Coupling of Primary Amines to Imines Using an Organic Nanotube-gold Nanohybrid, D. V. Jawale, E. Gravel, E. Villemin, N. Shah, V. Geertsen, **I. N. N. Namboothiri** and E. Doris, *Chem. Commun.* **2014**, *50*, 15251-15254.

[79] Electropolymerization of Bromothymol Blue on Carbon Paste Electrode Bulk Modified with Oxidized Multiwall Carbon Nanotubes and Its Application in Amperometric Sensing of Epinephrine in Pharmaceutical and Biological Samples, P. Pradhan, R. J. Mascarenhas, T. Thomas, **I. N. N. Namboothiri**, O. J. D'Souza, Z. Mekhalif, *J. Electroanalytical Chem.* **2014**, *732*, 30-37.

[78] One-Pot Regioselective Synthesis of meta-Terphenyls via [3+3] Annulation of Nitroallylic Acetates with Alkylidenemalononitriles, E. Gopi and **I. N. N. Namboothiri**, *J. Org. Chem.* **2014**, *79*, 7468-7476.

[77] Enantioselective Synthesis of  $\gamma$ -Tetrasubstituted Nitrosulfonyl Carboxylates and Amides *via* L-tert-Leucine-Derived-Squaramide Catalyzed Conjugate Addition of Nitrosulfones to Acrylates and Acrylamide, K. Bera and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2014**, *12*, 6425-6431.

[76] Chiral Squaramide Catalyzed Asymmetric Synthesis of Pyranones and Pyranonaphthoquinones via Cascade reactions of 1,3-Dicarbonyls with Morita-Baylis-Hillman Acetates of Nitroalkenes, D. K. Nair, R. F. S. Menna-Barreto, E. N. da Silva Júnior, S. M. Mobin and **I. N. N. Namboothiri**, *Chem. Commun.* **2014**, *50*, 6973-6976 ([Appeared on the cover page of the journal](#)).

[75] Carbon Nanotube-Gold Nanohybrid Catalyzed N-Formylation of Amines Using Aqueous Formaldehyde, N. Shah, E. Gravel, D. V. Jawale, E. Doris, and **I. N. N. Namboothiri**, *ChemCatChem* **2014**, *6*, 2201-2205 ([Appeared on the cover page of the journal](#)).

[74] Size Effect of Gold Nanoparticles Supported on Carbon Nanotube as Catalysts in Selected Organic Reactions, D. V. Jawale, E. Gravel, V. Geersten, H. Li, N. Shah, R. Kumar, J. John, **I. N. N. Namboothiri** and E. Doris, *Tetrahedron* **2014**, *70*, 6140-6145.

[73] Synthesis of  $\alpha$ -Tribromomethylamines via Mg-Mediated Addition of Bromoform to Imines, E. Gopi and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2014**, *12*, 2769-2777.

[72] Aerobic Oxidation of Phenols and Related Compounds using Carbon Nanotube–Gold Nanohybrid Catalysts, D. V. Jawale, E. Gravel, V. Geertsen, H. Li, N. Shah, **I. N. N. Namboothiri**, and E. Doris, *ChemCatChem* **2014**, *6*, 719-723.

[71] Reactions of Vinyl Sulfone with  $\alpha$ -Diazo- $\beta$ -Ketosulfone and Bestmann-Ohira Reagent For the Regioselective Synthesis of Highly Functionalized Pyrazoles, R. Kumar, D. Nair and **I. N. N. Namboothiri**, *Tetrahedron* **2014**, *70*, 1794-1799.

## 2013

[70] Enantioselective Synthesis of  $\alpha$ -Nitro- $\delta$ -ketosulfones via a Quinine-Squaramide Catalyzed Conjugate Addition of  $\alpha$ -Nitrosulfones to Enones, K. Bera and **I. N. N. Namboothiri**, *Chem. Commun.* **2013**, *49*, 10632-10634.

[69] Direct Reductive Amination of Aldehydes Catalyzed by Carbon Nanotube/Gold Nanohybrids, R. Kumar, E. Gravel, A. Hagège, H. Li, D. Verma, **I. N. N. Namboothiri** and E. Doris, *ChemCatChem* **2013**, *5*, 3571-3575.

[68] Diastereoselective Synthesis of Substituted Decalins from Rauhut-Currier Adducts of Conjugated Nitroalkenes, P. Shanbhag, V. Mane, C. Hazra, **I. N. N. Namboothiri**, *J. Ind. Chem. Soc.* **2013**, *90*, 1713-1719 ([Invited Article](#)).

[67] Electrochemical Determination of L-Tryptophan Based on a Multiwall Carbon Nanotube/Mg–Al Layered Double Hydroxide Modified Carbon Paste Electrode as a Sensor, O. J. D'Souza, R. J. Mascarenhas, T. Thomas, **I. N. N. Namboothiri**, M. Rajamathi, P. Martis, J. Dalhalle, *J. Electroanal. Chem.* **2013**, *704*, 220-226.

[66] Carbon Nanotube-gold Nanohybrids for Selective Catalytic Oxidation of Alcohols, R. Kumar, E. Gravel, A. Hagège, H. Li, D. V. Jawale, D. Verma, **I. N. N. Namboothiri** and E. Doris, *Nanoscale* **2013**, *5*, 6491-6497.

[65] Rauhut-Currier Reaction of Nitroalkenes with Vinyl Sulfones, R. Kumar, T. Kumar, S. M. Mobin and **I. N. N. Namboothiri**, *J. Org. Chem.* **2013**, *78*, 5073-5077.

[64] Conjugate Addition of Curcumins to Chalcones and Azodicarboxylates, N. Ayyagari, A. Mehta, E. Gopi, I. Deb, S. M. Mobin and **I. N. N. Namboothiri**, *Tetrahedron* **2013**, *69*, 5973-5980.

[63] Regiospecific Synthesis of Arenofurans via Cascade Reactions of Arenols with Morita-Baylis-Hillman Acetates of Nitroalkenes and Total Synthesis of Isoparvifuran, T. Kumar, S. M. Mobin and **I. N. N. Namboothiri**, *Tetrahedron* **2013**, *69*, 4964-4972.

[62] Enantioselective Synthesis of  $\alpha$ -Amino- $\gamma$ -sulfonyl Phosphonates with a Tetrasubstituted Chiral  $\alpha$ -Carbon via Quinine-Squaramide Catalyzed Michael Addition of Nitrophosphonates to Vinyl Sulfones, K. Bera and **I. N. N. Namboothiri**, *Adv. Synth. Catal.* **2013**, *355*, 1265-1270.

[61] Synthesis and Pyrolysis Studies of Bis(nitratomethyl)-1,3-bishomocubane-a High-Energy High-Density Liquid, S. Rajkumar, R. S. Choudhari, A. Chowdhury and **I. N. N. Namboothiri**, *Thermochim. Acta* **2013**, *563*, 38-45.

[60] Synthesis of Withasomnines and Their Non-natural Analogs from Aldehydes and 4-Nitro-1-butanol in Three Steps, D. Verma, R. Kumar and **I. N. N. Namboothiri**, *J. Org. Chem.* **2013**, *78*, 3482-3486.

[59] Synthesis of Fused Bromofurans via Mg-Mediated Dibromocyclopropanation of Cycloalkanone-Derived Chalcones and Cloke-Wilson Rearrangement, E. Gopi and **I. N. N. Namboothiri**, *J. Org. Chem.* **2013**, *78*, 910-919 (Commentary by V. Snieckus and K. G. Guimaraes, *SYNFACTS* **2013**, *9*, 489).

## 2012

[58] Synthesis of Imidazopyridines from the Morita-Baylis-Hillman Acetates of Nitroalkenes and Convenient Access to Alpidem and Zolpidem, D. K. Nair, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Lett.* **2012**, *14*, 4580-4583.

[57] Engineered-membranes: A Novel Concept for Tethering Native Lipid Bilayers, G. Patchornik, **I. N. N. Namboothiri**, D. K. Nair, E. Wachtel, S. Cohen, N. Friedman, M. Sheves, *J. Colloid Interface Sci.* **2012**, *388*, 300-305.

[56] One-Pot Two-Step Conversion of Aldehydes to Phosphonyl- and Sulfonylpyrazoles using Bestmann-Ohira Reagent, R. Kumar, D. Verma, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Lett.* **2012**, *14*, 4070-4073.

[55] Generation and Trapping of a Cage Annulated Vinylidenecarbene and Approaches to Its Cycloalkyne Isomer, B. Sahu, G. N. Gururaja, T. Kumar, A. Chatterjee, B. Ganguly, S. M. Mobin and **I. N. N. Namboothiri**, *J. Org. Chem.* **2012**, *77*, 6998-7004.

[54] Tethered Non-Ionic Micelles: A Matrix for Enhanced Solubilization of Lipophilic Compounds, G. Patchornik, **I. N. N. Namboothiri**, D. K. Nair, E. Wachtel and R. Persky, *Soft Matter* **2012**, *8*, 8456-8463.

[53] Synthesis of Functionalized and Fused furans and Pyrans from the Morita-Baylis-Hillman Acetates of Nitroalkenes, D. K. Nair, S. M. Mobin and **I. N. N. Namboothiri**, *Tetrahedron Lett.* **2012**, *53*, 3349-3352.

[52] Diastereo- and Enantioselective Synthesis of Densely Functionalized Cyclohexanones via Double Michael Addition of Curcumins with Nitroalkenes, N. Ayyagari and **I. N. N. Namboothiri**, *Tetrahedron: Asymmetry* **2012**, *23*, 605-610.

[51] Enantioselective Synthesis of Quaternary  $\alpha$ -Aminophosphonates via Conjugate Addition of  $\alpha$ -Nitrophosphonates to Enones, K. Bera and **I. N. N. Namboothiri**, *Org. Lett.* **2012**, *14*, 980-983.

[50] A Computational Evaluation of Bond Order and Charge Distributions in Isomeric Aminotroponiminiums and Their Benzo-Fused Derivatives, S. N. Balasubrahmanyam, **I. N. N. Namboothiri** and K. Pius, *Open J. Phy. Chem.* **2012**, *2*, 15-22.

## 2011

[49] Regioselective Synthesis of Sulfonylpyrazoles via Base Mediated Reaction of Diazosulfones with Nitroalkenes and a Facile Entry into Withasomnine, R. Kumar and **I. N. N. Namboothiri**, *Org. Lett.* **2011**, *13*, 4016-4019 ([Commentary by V. Snieckus and C. Schneider, SYNFACTS 2011, 10, 1060](#)).

[48] Highly Selective Synthesis of Pyrazole and Spiropyrazoline Phosphonates via Base-Assisted Reaction of the Bestmann-Ohira Reagent with Enones, D. Verma, S. M. Mobin and **I. N. N. Namboothiri**, *J. Org. Chem.* **2011**, *76*, 4764-4770.

[47] Formation of Five Membered Cyclic Orthoesters from Tribromides with Participation of a Neighboring Carbonyl Group, G. N. Gururaja, S. M. Mobin, and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2011**, 2048-2052.

[46] Stereoselective Construction of Carbocycles and Heterocycles *via* Cascade Reactions Involving Curcumins and Nitroalkenes, N. Ayyagari, D. Jose, S. M. Mobin and **I. N. N. Namboothiri**, *Tetrahedron Lett.* **2011**, 52, 258-262.

## 2010

[45] Rauhut-Currier Type Homo- and Heterocouplings Involving Nitroalkenes and Nitrodienes, P. Shanbhag, P. R. Nareddy, M. Dadwal, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2010**, 8, 4867-4873 ([Hot Article](#)).

[44] Phosphonylpyrazoles from Bestmann-Ohira Reagent and Nitroalkenes: Synthesis and Dynamic NMR Studies, R. Muruganantham and **I. N. N. Namboothiri**, *J. Org. Chem.* **2010**, 75, 2197-2205.

[43] Synthesis of Novel 1,7-Annulated 4,6-Dimethoxyindoles, K. Wood, D. S. C. Black, **I. N. N. Namboothiri** and N. Kumar, *Tetrahedron Lett.* **2010**, 51, 1606-1608.

[42] One-Pot Three Component  $\alpha$ -Aminoalkylation of Conjugated Nitroalkenes and Nitrodienes, K. Rajesh, P. Shanbhag, M. Raghavendra, P. Bhardwaj and **I. N. N. Namboothiri**, *Tetrahedron Lett.* **2010**, 51, 846-849.

## 2009

[41] Morita-Baylis-Hillman Reactions between Conjugated Nitroalkenes or Nitrodienes and Carbonyl Compounds, I. Deb, P. Shanbhag, S. M. Mobin and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2009**, 4091-4101.

[40] Facile Synthesis of  $\beta$ -Tribromomethyl and Dibromomethylenated Nitroalkanes via Conjugate Addition of Bromoform to Nitroalkenes, B. Sahu, G. N. Gururaja, S. M. Mobin and **I. N. N. Namboothiri**, *J. Org. Chem.* **2009**, 74, 2601-2604.

## 2008

[39] Synthetic and Theoretical Investigations on the Construction of Oxanorbornenes via Michael Addition and Intramolecular Diels-Alder Furan Reaction, M. Dadwal, M. K.

Kesharwani, V. Danayak, B. Ganguly, S. M. Mobin, R. Muruganantham and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2008**, 6108-6118.

[38] Enantioselective Conjugate Addition of Dialkyl Phosphites to Nitroalkenes, V. Rai and **I. N. N. Namboothiri**, *Tetrahedron: Asymmetry* **2008**, *19*, 2335-2338.

[37] Effect of Achiral and Mixed Chiral Ligands in the Asymmetric Synthesis of  $\gamma$ -Nitrophosphonates via Michael Addition, V. Rai and **I. N. N. Namboothiri**, *Tetrahedron: Asymmetry* **2008**, *19*, 767-772.

#### 2007

[36] Cinchonine Catalyzed Diastereo- and Enantioselective Michael Addition of  $\alpha$ -Lithiated Phosphonates to Nitroalkenes, V. Rai, S. M. Mobin and **I. N. N. Namboothiri**, *Tetrahedron: Asymmetry* **2007**, *18*, 2719-2726.

[35] Synthesis of Benzo-Fused Medium Ring Cyclic Ethers via a Michael Addition-Ring Closing Metathesis Strategy Involving Nitroaliphatic Compounds, I. Deb, S. John and **I. N. N. Namboothiri**, *Tetrahedron* **2007**, *63*, 11991-11997.

[34] Stereospecific Approach to  $\alpha$ ,  $\beta$ -Disubstituted Nitroalkenes via Coupling of  $\alpha$ -Bromonitroalkenes with Boronic acids and Terminal Acetylenes, M. Ganesh and **I. N. N. Namboothiri**, *Tetrahedron* **2007**, *63*, 11973-11983.

[33] The Electrochemical Behaviour of Novel Multifunctional  $\alpha$ -Hydroxymethylated Nitroalkenes at Glassy Carbon and Wax Impregnated Carbon Paste Electrodes, R. J. Mascarenhas, **I. N. N. Namboothiri**, B. S. Sherigara and K. M. Mahadevan, *Croat. Chem. Acta* **2007**, *80*, 53-59.

[32] Synthetic and Mechanistic Investigations on the Rearrangement of 2,3-Unsaturated 1,4-Bis(alkylidene)carbenes to Eneidyne, B. Sahu, R. Muruganantham and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2007**, 2477-2489.

[31] Base-Mediated Reaction of the Bestmann-Ohira Reagent with Nitroalkenes for the Regioselective Synthesis of Phosphonylpyrazoles, R. Muruganantham, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Lett.* **2007**, *9*, 1125-1128.



- [30] A Theoretical Evaluation of the Michael Acceptor Ability of Conjugated Nitroalkenes, V. Rai and **I. N. N. Namboothiri**, *Eur. J. Org. Chem.* **2006**, 4693-4703.
- [29] Electroreductive Study of  $\beta$ -Nitrostyrene in Surfactant Medium at Wax Impregnated Carbon Paste Electrode, R. J. Mascarenhas, **I. N. N. Namboothiri**, B. S. Sherigara and B. E. Kumaraswamy, *Bulletin of Electrochemistry* **2006**, *22*, 253-256.
- [28] Synthesis and Evaluation of  $\alpha$ -Hydroxymethylated Conjugated Nitroalkenes for their Anticancer Activity: Inhibition of Cell Proliferation by Targeting Microtubules, R. Mohan, N. Rastogi, **I. N. N. Namboothiri**, S. M. Mobin and D. Panda, *Bioorg. Med. Chem.* **2006**, 8073-8085 ([Appeared on the cover page of the journal](#)).
- [27] Synthesis and Anticancer Activity Studies of  $\alpha$ -Aminoalkylated Conjugated Nitroalkenes, N. Rastogi, R. Mohan, D. Panda, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2006**, *4*, 3211-3214 ([1 of the top 10 most downloaded OBC articles in Aug 2006 and appeared on the cover page of the journal](#)).
- [26] Highly Efficient Hydrazination of Conjugated Nitroalkenes via Imidazole or DMAP Mediated Morita-Baylis-Hillman Reaction, M. Dadwal, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Biomol. Chem.* **2006**, *4*, 2525-2528 ([1 of the top 10 most downloaded OBC articles in June 2006](#)).
- [25] A Study of Quasi Reversible Nitro Radical Anion From  $\beta$ -Nitrostyrene at Wax-Impregnated Carbon Paste Electrode, R. J. Mascarenhas, **I. N. N. Namboothiri**, B. S. Sherigara and V. K. Reddy, *J. Chem. Sci.* **2006**, *118*, 275-279.
- [24] Electrochemical Investigation of Novel Multifunctional  $\alpha$ -Hydroxymethylated Nitroalkenes at Glassy Carbon and Wax Impregnated Carbon Paste Electrodes, R. J. Mascarenhas, **I. N. N. Namboothiri**, B. S. Sherigara and K. M. Mahadevan, *J. Electrochem. Soc. Ind.* **2006**, *55*, 1-6.
- [23] Hydroxyalkylation of Conjugated Nitroalkenes with Activated Non-enolizable Carbonyl Compounds, I. Deb, M. Dadwal, S. M. Mobin and **I. N. N. Namboothiri**, *Org. Lett.* **2006**, *8*, 1201-1204.
- [22] The Morita-Baylis-Hillman Adducts of  $\beta$ -Aryl Nitroethylenes with Other Activated Alkenes: Synthesis and Anticancer Activity Studies, M. Dadwal, R. Mohan, D. Panda, S. M. Mobin and **I. N. N. Namboothiri**, *Chem. Commun.* **2006**, 338-340.



## 2005

[21] A Stereoselective and Atom-Efficient Approach to Multifunctionalized Five and Six Membered Rings via a Novel Michael-Initiated Intramolecular Diels-Alder Furan Reaction, **I. N. N. Namboothiri**, M. Ganesh, S. M. Mobin and M. Cojocar, *J. Org. Chem.* **2005**, *70*, 2235-2243.

[20] Synthesis of Arenediynes via the Vinylidenecarbene-Acetylene Rearrangement, B. Sahu, **I. N. N. Namboothiri** and R. Persky, *Tetrahedron Lett.* **2005**, *46*, 2593-2597.

## 2004

[19]  $\alpha$ -Hydroxymethylation of Conjugated Nitroalkenes via the Morita-Baylis-Hillman Reaction, N. Rastogi, **I. N. N. Namboothiri** and M. Cojocar, *Tetrahedron Lett.* **2004**, *45*, 4745-4748.

[18] Selectivities in the 1,3-Dipolar Cycloaddition of Nitrile Oxides to Dicyclopentadiene and Its Derivatives, **I. N. N. Namboothiri**, N. Rastogi, B. Ganguly, S. M. Mobin and M. Cojocar, *Tetrahedron* **2004**, *60*, 1453-1462.

## 2001

[17] Synthesis, Alkali Metal Picrate Extraction and Alkali Metal Cation Binding Selectivities of Some New Cage-Annulated Polyoxamacrocyclic Crown Ethers, A. P. Marchand, Z. Huang, Z. Chen, H. K. Hariprakash, **I. N. N. Namboothiri**, J. S. Brodbelt and M. L. Reyzer, *J. Heterocycl. Chem.* **2001**, *38*, 1361-1368.

[16] Synthesis of 2,5-Dimethylpentacyclo[5.4.0.0<sup>2,5</sup>.0<sup>3,9</sup>.0<sup>4,8</sup>]decane, A. P. Marchand, H. K. Hariprakash and **I. N. N. Namboothiri**, *Synth. Commun.* **2001**, *31*, 1863-1869.

[15] Determination of Alkali Metal Binding Selectivities of Caged Crown Ligands by Electrospray Ionization Quadrupole Ion Trap Mass Spectrometry, M. L. Reyzer, J. S. Brodbelt, A. P. Marchand, Z. Chen, Z. Huang and **I. N. N. Namboothiri**, *Int. J. Mass Spectrom.* **2001**, *204*, 133-142.

## 2000

[14] Reactions of Cage-Annulated 2-Methyl-5-(trifluoromethanesulfonyloxy)-furans with Lithium Diisopropylamide: Evidence for Nucleophilic Reactivity of LDA, A. P. Marchand and **I. N. N. Namboothiri**, *Heterocycles* **2000**, *52*, 451-457.

## 1999

[13] Generation and Trapping of an Unsymmetrical, Caged Pyramidalized Alkene, A. P. Marchand, **I. N. N. Namboothiri**, B. Ganguly, W. H. Watson and S. G. Bodge, *Tetrahedron Lett.* **1999**, *40*, 5105-5109.

[12] Synthesis and Crystal Structure of 4,5-Dibromo[2.1.1]triblattene, S. G. Bott, A. P. Marchand and **I. N. N. Namboothiri**, *J. Chem. Crystallogr.* **1999**, *29*, 351-354.

[11] Short H-H Distances in Norbornene Derivatives, S. G. Bodge, D. Sun, A. P. Marchand, **I. N. N. Namboothiri**, R. Shukla and W. H. Watson, *J. Chem. Crystallogr.* **1999**, *29*, 523-530.

## 1998

[10] Study of a Vinylidenecarbene-Cycloalkyne Equilibrium in the D<sub>3</sub>-Trishomocubyl Ring System, A. P. Marchand, **I. N. N. Namboothiri**, B. Ganguly and S. G. Bott, *J. Am. Chem. Soc.* **1998**, *120*, 6871-6876.

[9] Thiele's Acid Revisited: Isolation and Characterization of Two Minor Products Formed via Carbonation of Cyclopentadienide Anion, A. P. Marchand, **I. N. N. Namboothiri**, S. B. Lewis, W. H. Watson and M. Krawiec, *Tetrahedron* **1998**, *54*, 12691-12698.

[8] Photochemical Chlorocarbonylation of HCTD by Oxalyl Chloride. Carbocation Mediated Rearrangement of HCTD Derivatives to Novel, Substituted Heptacyclopentadecanes, A. P. Marchand, S. Alihodzic, **I. N. N. Namboothiri** and B. Ganguly, *J. Org. Chem.* **1998**, *63*, 8390-8396.

## 1997

[7] A Highly Stereoselective One-pot Tandem Consecutive 1,4-Addition-Intramolecular 1,3-Dipolar Cycloaddition Strategy for the Construction of Functionalized Five- and Six-membered Carbocycles, **I. N. N. Namboothiri**, A. Hassner and H. E. Gottlieb, *J. Org. Chem.* **1997**, *62*, 485-492.

## 1996

[6] Additions of Organomanganese Reagents to Conjugated Nitro Olefins, **I. N. N. Namboothiri** and A. Hassner, *J. Organomet. Chem.* **1996**, *518*, 69-77.

[5] The Important Role of Heteroaromatics in the Design of Efficient Second Order Non-linear Optical Molecules: Theoretical Investigation on Push-pull Heteroaromatic Stilbenes, V. P. Rao, A. K.-Y. Jen, J. Chandrasekhar, **I. N. N. Namboothiri** and A. Rathna, *J. Am. Chem. Soc.* **1996**, *118*, 12443-12448.

[4]  $\pi$ -Face Selectivities in Nucleophilic Additions to 2-endo-Arylnorbornan-7-ones: The Role of Through-Space Electrostatic Interactions, G. Mehta, F. A. Khan, N. Mohal, **I. N. N. Namboothiri**, P. Kalyanaraman and J. Chandrasekhar, *J. Chem. Soc., Perkin Trans. I* **1996**, 2665-2667.

#### 1994

[3] Transformations in Bromo- and Alkoxybenzotropones, **I. N. N. Namboothiri** and S. N. Balasubrahmanyam, *J. Ind. Inst. Sci.*, Special Issue on the Tenth International Conference on Organic Synthesis (IUPAC), Indian Institute of Science, Bangalore, **1994**, *74*, 473-486.

[2] Selectivities in the Formation of Pyridines and Pyrimidines by Ammonia-Induced Cyclocondensations of Vinamidiniums, S. N. Balasubrahmanyam, B. Jeyashri and **I. N. N. Namboothiri**, *Tetrahedron* **1994**, *50*, 8127-8142.

#### 1993

[1] On the Temperature Dependence of Regioselectivity in the Amination of Bromobenzotropones, **I. N. N. Namboothiri** and S. N. Balasubrahmanyam, *Ind. J. Chem., Section B* **1993**, *32B*, 1029-1034.

#### *Conference Proceedings*

[8] Investigation of Combustion Characteristics of Two Novel Energetic Propellants, A. Sankaranarayanan, S. Lal, **I. N. N. Namboothiri**, S. Reshmi, A. Chowdhury, N. Kumbhakarna, Proceedings of the 7th International and 45th National Conference on Fluid Mechanics and Fluid Power (FMFP), IIT Bombay, Mumbai, India, **2018**.

[7] Bishomocubanes as Possible Binders in Composite Solid Propellants, L. Mallick, H. K. Thakker, S. Lal, S. Kumar, **I. N. N. Namboothiri**, N. Kumbhakarna and A. Chowdhury, Conference Paper at 11<sup>th</sup> Asia-Pacific Conference on Combustion (ASPACC), The University of Sydney, NSW, Australia, December, 10-14, **2017**.

[6] Droplet Combustion Studies of Bis(nitratomethyl)-1-3-bishomocubane and Its Mixture with an RP-1 Surrogate Fuel, A. Sankaranarayanan, S. Lal, **I. N. N. Namboothiri**, S. Reshmi, A. Chowdhury and N. Kumbhakarna, Conference Paper at 11<sup>th</sup> Asia-Pacific Conference on Combustion (ASPACC), The University of Sydney, NSW, Australia, December, 10-14, **2017**.

[5] Cubane Decomposition Pathways - A Comprehensive Study, B. S. Bimal, N. R. Kumbhakarna, A. Chowdhury and I. N. N. Namboothiri, International Confederation of Thermal Analysis and Calorimetry Congress, Orlando, Florida, USA, August, 15 – 19, **2016**.

[4] Thermodynamic and Thermal Characterization of Bishomocubane Derivatives as Possible Binders in Composite Solid Propellants, L. Mallick, A. Ambekar, S. Lal, N. R. Kumbhakarna, A. Chowdhury and **I. N. N. Namboothiri**, Conference Paper at 10<sup>th</sup> Asia-Pacific Conference on Combustion (ASPACC), Beijing, China, July, 19-22, **2015**.

[3] Polycyclic Hydrocarbons as High Energy-Density (HED) Fuels for Propulsion, **I. N. N. Namboothiri**, N. K. Meher, S. Chavan, B. Sahu, O. P. Oommen, T. L. Varghese, S. Reshmi and K. N. Ninan, *Proceedings of the 5th International High Energy Materials Conference and Exhibit*, DRDL, Hyderabad, **2005**.

[2] Synthesis of New High-Energy/High-Density Hydrocarbon Fuel Systems, A. P. Marchand, K. C. V. Ramanaiyah, S. Alihodzic, **I. N. N. Namboothiri**, E. Z. Dong, B. R. Aavula, S. B. Lewis and S. G. Bott, *Advances in Chemical Propulsion*, Roy, G. D. (Ed.), CRC Press LLC, Boca Raton, Fla **2002**, 41-60.

[1] New Adventures with Divalent Carbon Intermediates, A. P. Marchand, D. Rajagopal, K. A. Kumar, R. Eckrich, K. C. V. Ramanaiyah, **I. N. N. Namboothiri**, S. Alihodzic, E. Z. Dong, R. Shukla, S. G. Bott, G. Mloston, A. Galindo and R. Bartnik, *Macromol. Symp.* **1998**, 134, 95-104.