

Detailed CV

Name: Dr. Mahagundappa Maddani

Educational Qualification:

M.Sc. (2003-Karnatak University Dharwad, Karnataka)

Ph.D. (2010-IISc., Bengaluru, Karnataka)

Designation: Associate Professor

Address for Correspondence:

Department of Chemistry

Mangalore University

Mangalagangothri - 574199

E-mail: mahagundappa@mangaloreuniversity.ac.in;
mahagundappa@gmail.com

Mobile: 09964344543



Area of Specialization: Organic Chemistry

Research Areas: Synthetic Methodologies and Catalysis

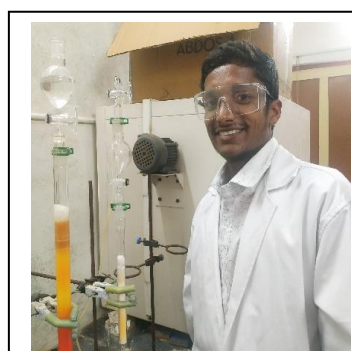
Research Activities: The most fundamental expedition in the organic synthesis is to explore new synthetic methods for preparing biologically and pharmaceutically important molecules in an efficient and elegant manner. In this context, our research is mainly focused on design and exploitation of novel organic/organometallic/metal reagents and catalysts in organic synthesis. Research is also directed towards employing green reaction conditions for the synthesis of new molecules and development of Multi Component Reactions (MCR). Interested in testing the efficiency of new chiral reagents and catalysts in asymmetric transformations and examining their applications in organic synthesis. In addition, we are also involved in C-C and C-hetero bond formations through C-H activation/functionalization strategies using green chemistry principles.

Professional Teaching / Research Experience

1. **Associate Professor** Mar 2026 – Present
Department of Chemistry, Mangalore University, INDIA
2. **Assistant Professor** Mar 2014 – Feb 2026
Department of Chemistry, Mangalore University, INDIA
3. **Advinus Therapeutics Ltd., Bengaluru** Oct 2011 - Feb 2014
Designation: Principal Scientist
4. **Postdoctoral research:** June 2010 - May 2011
Research Topic: *"Stereoselective synthesis of enantiopure compounds for biological studies"*
Institut de Chimie Moléculaire et des Matériaux d'Orsay, University of Paris Sud-XI, France
Advisor: Professor HENRI B. KAGAN
5. **Ph.D programme:** August 2005 - June 2010
Research Topic: *"Chemistry of Molybdenum Xanthate (MoO₂/Et₂NCS₂/2): Applications in Organic Synthesis"*
Department of Organic Chemistry, Indian Institute of Science, Bengaluru, INDIA
Supervisors: Dr. K. R. PRABHU and Prof. S. CHANDRASEKARAN
6. **Aurigene (Accelerating discovery) Ltd., Bengaluru** Jan 2005 – June 2005
Designation: Science Associate
7. **CIPLA Ltd, Bangalore** June 2003 – Dec 2004
Designation: Synthetic Organic Chemist

Research Guidance (Ph.D.s):

Research Scholars – Ongoing



Mr. Naveenkumar S.
(Feb 2022 - Present)



**Mr. Dundappa
Mundiganal**
(June 2023 - Present)

Research Scholars – Ph.D. Degree awarded

Sl. No.	Research Scholar	Title of Thesis	Year of Award
1	 Dr. Ganesh S. Sorabad	Design and Development of C-X, C-S and C-Se Bonds on Electron Rich Systems via Oxidative C-H Functionalization	Feb 2020
2	 Dr. Vishakha Rai P.	Design and Development of C-Heteroatom Bonds on Electron Rich Systems via Oxidative C-H Functionalization and 1,6-Addition Reactions	Mar 2022
3	 Dr. Shwethambika P.	A Study on the Effectiveness of Plant Extracts as Corrosive Inhibitors on Mild Steel and Aluminium	Mar 2023
4	 Dr. Lavina Gladis Serrao	Construction of C-C and C-heteroatom bonds on electron rich systems via oxidative functionalization, addition and substitution reactions	Nov 2025
5	 Dr. Kavyashree Kuppayya Gond	Design and construction of oxa/aza heterocycles via addition-cyclization strategies	Jan 2026

Research Group

@ 2019



@ 2022



@ 2023



Research Projects: Completed

- 1. UGC-BSR Startup Research Grant:** From Oct-2015 to Sep-2017
Title of the Project: *Novel synthetic strategy for easy access to proline derivatives.*
Funding Agency: UGC, INDIA; **Amount:** Rs. 6 Lacs.
- 2. SERB-DST, Early Career Research Award. Restructured Start up Research Grant:**
From 17-06-2016 to 16-06-2019
Title of the Project: *Investigation of reactivities and applications of new electrophile components for Morita-Baylis-Hillman reaction.*
Funding Agency: SERB-DST, Govt. of INDIA; **Amount:** Rs. 32.67 Lacs
- 3. VGST, Government of Karnataka, INDIA - As Co PI**
From 2020-21 to 2022-23
Title of the Project: *Areca husk fiber as thermal insulator and acoustical absorber: Conversion of agricultural waste into useful product.*
Funding Agency: VGST, Govt. of Karnataka, INDIA; **Amount:** Rs. 30 Lacs

Research Publications:

Book Chapter:

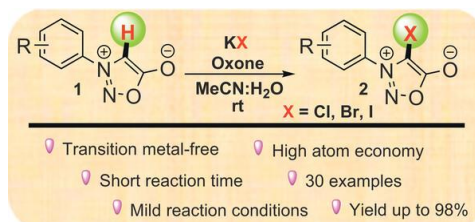
1. Separation of Enantiomers: New methods and Applications – Chapter II: Stoichiometric Kinetic Resolution reactions, Mahagundappa R. MADDANI, Jean Claude FIAUD, and Henri B. KAGAN, Wiley-VCH Publication. Published online: 2nd May 2014, Print ISBN-9783527330454, online ISBN-9783527650880

Patents:

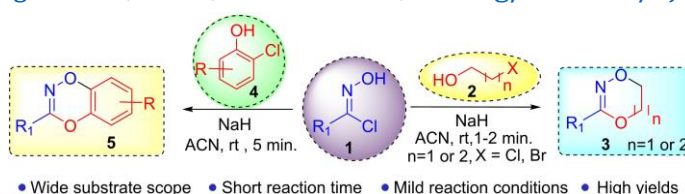
1. "Process for preparing fluoxastrobin", Rama Mohan Hindupur, Avinash Sheshrao Mane, Sankar Balakrishnan, Jivan Dhanraj Pawar, Mahagundappa Rachappa Maddani, Sandeep Wadhwa, WO2015006203 (A1), Publication date: 15/01/2015.
2. "Process for preparing fluoxastrobin", Rama Mohan Hindupur, Avinash Sheshrao Mane, Sankar Balakrishnan, Jivan Dhanraj Pawar, Mahagundappa Rachappa Maddani, Sandeep Wadhwa, Vic Prasad, US20150011753 (A1), Publication date: 08/01/2015, also published as WO2015006203 (A1).

Research Journals

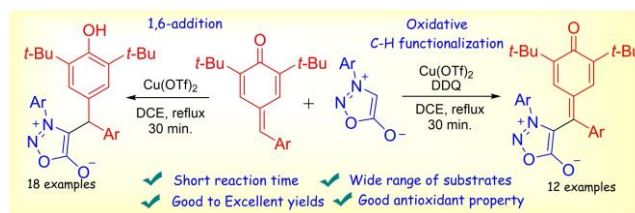
25. Oxidative Halogenation of Sydnone Mediated by KX–Oxone System under Mild Conditions, Naveenkumar, S.; Mahagundappa Rachappa Maddani, [Synlett.](#), DOI: [10.1055/a-2661-4038](#)



24. Facile Synthesis of 1,4,2-Dioxazines Using Aromatic Chlorooximes and 2-Chloroethanol/2-Chlorophenols, Lavina Gladis Serrao and Mahagundappa Rachappa Maddani, [Asian J. Org. Chem.](#), 2024, e202400475, doi.org/10.1002/ajoc.202400475



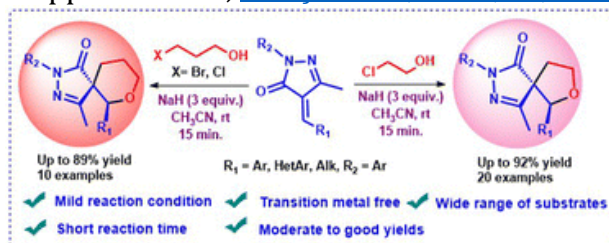
23. Addition of Sydnone to *para*-Quinone Methides: Selective 1,6-Additions and Oxidative C–H Functionalizations, Lavina Gladis Serrao, S. Naveenkumar, Mahagundappa R. Maddani, [Eur. J. Org. Chem., 2024, 27, e202400703, doi.org/10.1002/ejoc.202400703](#)



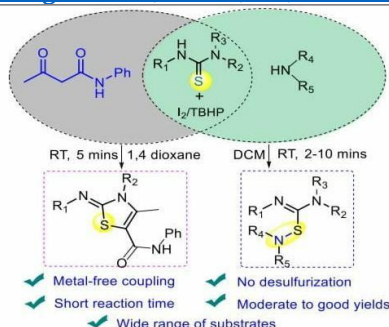
22. Convenient synthesis of spiro-pyrazolone–pyrrolidinones via *ipso*-cyclization of arylidene pyrazolones with 2-chloro-*N*-phenylacetamides, Kavyashree Kuppayya Gond and Mahagundappa Rachappa Maddani, [New J. Chem., 2024, 48, 15866-15869](#)



21. Facile synthesis of spiro-pyrazolone-tetrahydrofurans/pyrans: *ipso*-cyclization of arylidene pyrazolones with haloalcohols, Kavyashree Kuppayya Gond and Mahagundappa Rachappa Maddani, [New J. Chem., 2024, 48, 8667-8671](#)



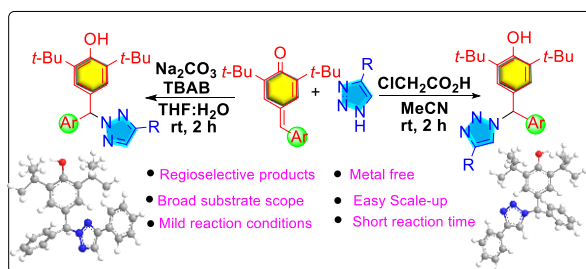
20. Iodine catalysed oxidative cross coupling of thioureas and amines without desulfurization, Lavina Gladis Serrao, Vishaka Rai, Ganga Periyasamy, Mahagundappa Rachappa Maddani, [Asian J. Org. Chem., 2023, 12, e202300032](#).



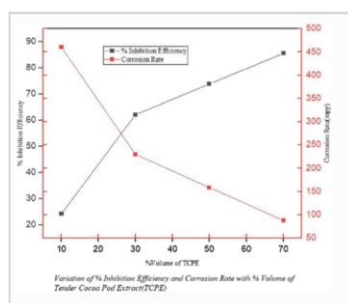
19. Addition of Sulfonylphthalides to *para*-Quinone methides: Selective 1,6 additions and Oxidative annulations, Kavyashree K. Gond, and Mahagundappa R. Maddani, [Org. Biomol. Chem., 2023, 21, 2504-2508](#)



18. 1,6-Addition of 1,2,3-NH triazoles to para-quinone methides: Facile access to highly selective N¹ and N² substituted triazoles, Vishakha Rai, Kavyashree P., Sarvesh S. Harmalkar, Sunder N. Dhuri and Mahagundappa R. Maddani, [*Org. Biomol. Chem.*, 2022, 20, 345-351](#)



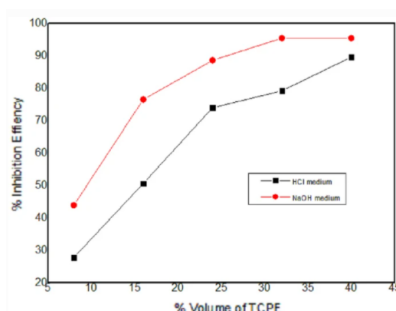
17. Spectroscopic characterization and evaluation of tender Theobroma cacao pod extract as ecofriendly inhibitor for mild steel in 1 M HCl, Shwethambika Pernaje, Ishwara J. Bhat, Mahagundappa R. Maddani, [*Research on Chemical Intermediates*, 2021, 47, 5369-5388](#)



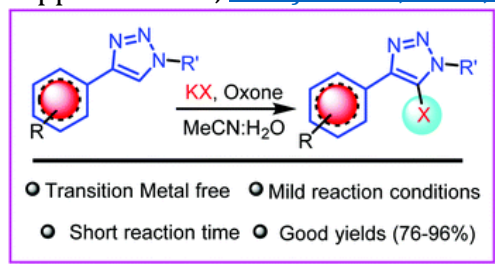
16. Efficient and Direct Selenocyanation of Ketene Dithioacetals Using Malononitrile-SeO₂ Under Transition-Metal-Free Conditions, Vishakha Rai, Ganesh Shivayogappa Sorabab and Mahagundappa Rachappa Maddani, [*ChemistrySelect*, 2021, 6, 6468-6471](#)



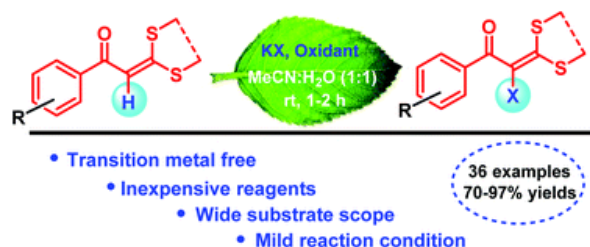
15. Chemical and Electrochemical Investigation on Mitigation of Acidic and Alkaline Corrosion for Al-63400 Alloy Using Tender Cocoa Pod Extract, Shwethambika Pernaje, Ishwara J. Bhat, Mahagundappa R. Maddani, [*Journal of Bio and Tribo Corrosion*, 2021, 7\(3\), Article No-120](#)



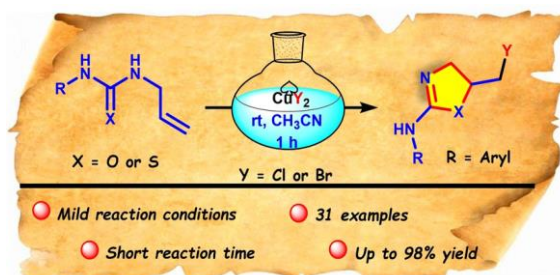
14. Facile and direct halogenation of 1,2,3-triazoles promoted by a KX–oxone system under transition metal free conditions, Vishakha Rai, Ganesh Shivayogappa Sorabad and Mahagundappa Rachappa Maddani, [New J. Chem., 2021, 45, 3969-3973](#)



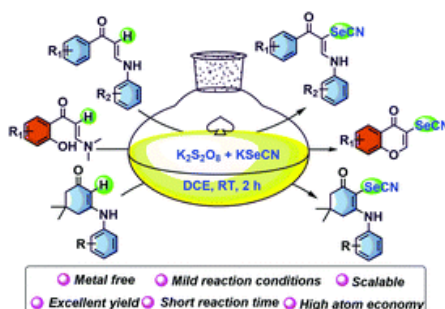
13. Transition metal free, green and facile halogenation of ketene dithioacetals using a KX–oxidant system, Vishakha Rai, Ganesh Shivayogappa Sorabad and Mahagundappa Rachappa Maddani, [New J. Chem., 2021, 45, 1109-1113](#)



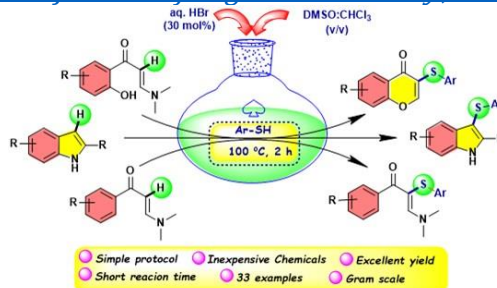
12. CuX₂ Mediated Facile Halocyclization of N-Allyl Thioureas, Vishakha Rai, Ganesh Shivayogappa Sorabad and Mahagundappa Rachappa Maddani, [ChemistrySelect, 2020, 5, 6565-6569](#)



11. Facile, regioselective oxidative selenocyanation of N-aryl enaminones under transition-metal-free conditions, Ganesh Shivayogappa Sorabad and Mahagundappa Rachappa Maddani, [New J. Chem., 2020, 44, 2222 – 2227](#)



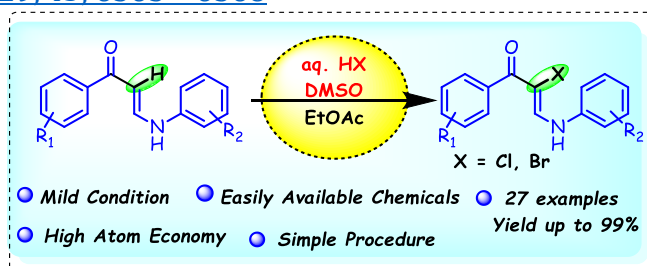
10. Metal free, facile synthesis of sulfenylated chromones and indoles promoted by an aqueous HBr–DMSO system, Ganesh Shivayogappa Sorabab and Mahagundappa Rachappa Maddani, [Asian Journal of Organic Chemistry, 2019, 8, 1336-1343](#)



9. Metal free, facile sulfenylation of ketene dithioacetals catalyzed by an HBr–DMSO system, Ganesh Shivayogappa Sorabab and Mahagundappa Rachappa Maddani, [New J. Chem., 2019, 43, 5996 – 6000](#)



8. Metal-free, green and efficient oxidative a halogenation of enaminones by halo acid and DMSO, Ganesh Shivayogappa Sorabab and Mahagundappa Rachappa Maddani, [New J. Chem., 2019, 43, 6563 – 6568](#)



Before joining Dept of Chemistry, Mangalore University

7. Chemistry of Macrocyclic β -Lactam: An Overview, Vijaya Bhaskar Vangala, Mahagundappa Rachappa Maddani, Rama Mohan Hindupur, and Hari Narayan Pati, The Japan Institute of heterocyclic Chemistry publication (Japan), [Heterocycles, 2015, 91, 707 – 717](#)
6. Metal free deprotection of terminal acetonides by using *tert*-butylhydroperoxide in aqueous medium, Mahagundappa R. Maddani, Kandikere R. Prabhu, Georg Thieme Verlag KG (Germany) publication, [Synlett, 2011, 821 – 825](#)
5. A convenient method for the synthesis of substituted thioureas in aqueous medium, Mahagundappa R. Maddani and Kandikere R. Prabhu, American Chemical Society (US) publication, [J. Org. Chem. 2010, 75, 2327 – 2332](#)
4. Dioxomolybdenum reagents in organic synthesis: utility of redox capability to design reduction and oxidation, Mahagundappa R. Maddani and Kandikere R. Prabhu, Indian Institute of Science (India) publication, [Journal of the Indian Institute of Science, 2010, 90, 287 – 297](#)

3. Chemoselective reduction of azides catalyzed by molybdenum xanthate by using phenylsilane as the hydride source, Mahagundappa R. Maddani, Saravan K. Moorthy and Kandikere R. Prabhu, Elsevier publication (UK), [Tetrahedron 2009, 66, 329 – 333](#)
2. A chemoselective aerobic oxidation of benzylic azides catalyzed by molybdenum xanthate in an aqueous medium, Mahagundappa R. Maddani and Kandikere R. Prabhu, Elsevier publication (UK), [Tetrahedron Lett., 2008, 49, 4526-4530](#)
1. A convenient method for the synthesis of substituted thioureas, Mahagundappa R. Maddani and Kandikere R. Prabhu, Elsevier publication (UK), [Tetrahedron Lett., 2007, 48, 7151-7154](#)

Invited / plenary talks delivered (list)

9. Delivered a lecture - “Cracking NET/SET! Is it really that easy?” organized by Dr. G. Shankar Govt. Women’s First Grade College and PG Study Centre, Ajjarkad, Udupi on 08-04-2026.
8. Delivered a lecture - “Cracking NET/SET! Is it really that easy?” organized by Department of Kannada, Mangalore University on 24-04-2025.
7. Delivered a lecture - “Cracking NET/SET! Is it really that easy?” organized by Department of Chemistry, SDM College, Ujire on 01-03-2024.
6. Delivered Vishwanath P. Shetty Endowment Lecture - “1,6-Additions of para Quinone Methides” organized by Department of Chemistry, Govinda Dasa College, Surathkal on 07-07-2023.
5. Delivered a lecture - “Oxidative Halogenations: Safe and Alternative to Traditional Halogenations” in an invited talk organized by Department of Chemistry, Central University of Karnataka, Kalaburagi on 01-03-2023.
4. Delivered a lecture - “Oxidative Halogenations: Safe and Alternative to Traditional Halogenations” in Two Days National Conference On NEW VISTAS IN CHEMISTRY organized by Department of Chemistry, Bangalore University, on 03-08-2022.
3. Delivered a lecture - “Oxidative Halogenations on electron rich Systems” during the felicitation program on the occasion of retirement of Prof. K. R. Prabhu and Prof. Tushar Chakraborty, organized by Department of Organic Chemistry, IISc, Bangalore on 21-07-2022.
2. Delivered a lecture - “Metal free approach for the oxidative C-H functionalization: Development of C-X and C-S bonds on electron rich systems” in A Virtual Conference on Recent Advances in Chemical Science and Medicinal Chemistry organized by Department of Organic Chemistry, Mysore University, on 14-03-2022.
1. Delivered a lecture - “Metal free approach for the oxidative C-H functionalization: Development of C-X, C-S and C-Se bonds on electron rich systems” in a webinar organized by Department of Chemistry, Bangalore University, on 24-07-2020.

Impact of publications in terms of

h-index, i10 index and Citation index

Google Scholar Citations:

<https://scholar.google.com/citations?user=HjAyHzUAAAAJ&hl=en>

Awards / Fellowship / Recognition

1. **Award for Research Publications for the year 2021-22** (ARP 2021-22), VGST, Government of Karnataka
2. **The Guha Research Medal** (Best thesis award) for the year 2009 – 2010
3. **CSIR-UGC, NET** – December 2009

Membership of Professional Bodies

Life member - Indian Council of Chemists (ICC)

FDPs/ Professional Development programs (PDPs)/ Refresher Course/ Orientation Course/ Faculty Induction program (FIPs)/ Workshops/ Seminars/ Conferences attended:

9. Attended Faculty Enablement Program conducted by Infosys, Springboard during 13-02-2025 to 18-02-2025
8. Completed NEP 2020 Orientation & Sensitization Programme under Malaviya Mission Teacher Training Programme (MM-TTP) of UGC organized by UGC-MMTTC, Goa University during 13.09.2024 to 24.09.2024.
7. Attended the UGC-Sponsored 4th online Refresher Course in Chemistry organized by UGC-HRDC, Gujarat University during 09-10-2023 to 22-10-2023 and obtained Grade A.
6. Attended the UGC-Sponsored 3rd online Refresher Course in Chemistry organized by UGC-HRDC, Gujarat University during 21-06-2022 to 04-07-2022 and obtained Grade A+.
5. Attended the online National Faculty Development Program on ‘Strategies for Enhancing Mental Health in Teachers and Students’ jointly organized by The IQAC and The Dept. of Psychology of Rajagiri College of Social Sciences (Autonomous) and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education during 26-10-2021 to 01-11-2021 and obtained Grade A.
4. Attended the online National Faculty Development Program on ‘Strengthening Academic & Research Pursuit in the 21st Century’ jointly organized by Dept. of Chemistry & Biochemistry, School of Basic Sciences and Research, Sharda University, Greater Noida and Guru Angad Dev Teaching Learning Centre, SGTB Khalsa College, University of Delhi under the Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT) of Ministry of Education during 28-06-2021 to 04-07-2021 and obtained Grade A+.
3. Attended the SWAYAM ARPIT online Refresher Course in Chemistry for higher Education organized by S.G.T.B. Khalsa College, University of Delhi during 01-12-2020 to 31-03-2021 and qualified in the proctored examination held on 21/08/2021.
2. Attended the UGC-Sponsored Refresher Course in Chemistry organized by UGC-HRDC, Goa University during 01-12-2017 to 21-12-2017 and obtained Grade A.
1. Attended the *UGC-Sponsored Orientation Programme GOC-96* organized by Academic Staff College, Guru Nanak Dev University during 11-12-2014 to 07-01-2015 and obtained Grade A.

Important Links

1. [Interactive 3D Chemistry Animations- Chem Tube 3D](#)
2. [Structure of an atom](#)
3. [To draw and view 3D image of new molecules please click this link](#)
4. [Lecture Notes of "Advanced Organic Chemistry" course by Harvard University Professor David Evans](#)
5. [Lecture Notes of "Advanced Organic Chemistry" offered at Harvard University "Chem 206" by Prof. Eugen E. Kwan & Prof. Evans](#)
6. [Lectures Notes of "Chem 605 NMR Spectroscopy" course offered by Prof. Hans Reich at the University of Wisconsin](#)
7. [For many other useful organic chemistry "Lecture Notes" click this link](#)
8. [Evans Pka Table](#)