



Science of Synthesis

Thieme

- Thieme promove os mais recentes avanços na prática clínica e é conhecida pela alta qualidade didática de seus livros, revistas e produtos eletrônicos.
- Além de publicar 70 novos títulos de livros a cada ano, a Thieme publica mais de 140 revistas médicas e científicas tanto em formato impresso tradicional quanto em formato eletrônico
- Possui uma longa história na área da saúde, atuando há mais de 125 anos.



Science of Synthesis

- É o único recurso que fornece revisão crítica de texto completo, bem como da metodologia sintética atual nos campos da química orgânica e organometálica.
- Escrito por químicos para químicos, a SOS fornece recomendações de especialistas de mais de 1.750 colaboradores, bem como informações únicas sobre o escopo e as limitações dos métodos sintéticos.

The screenshot shows the homepage of the Thieme Science of Synthesis website. At the top, there is a navigation bar with links: Query, Results, Full Text, Explore Contents, Teaching Resources, Training & Support, Help, Safety Statement, About Science of Synthesis, and About Thieme Chemistry. Below the navigation bar is a search bar with a placeholder 'Search by word, author name, DOI etc.' and buttons for Clear, Draw, Submit, Load Query, and Switch to advanced search. To the right of the search bar is a 'MySOS' button. The main content area is titled 'Explore Science of Synthesis' and contains several sections: 'New! Early View' (listing topics like Synthesis of Alkenes by Palladium-Catalyzed Cross-Coupling Reactions with Carbene Precursors), 'Functional Groups' (listing Nitriles, Isocyanides, and Derivatives, Acid Halides, Carboxylic Acids, Esters, Anhydrides, Peroxy Acids, Amides and Derivatives, Peptides, Lactams, Thio-, Seleno-, and Tellurocarboxylic Acids, Imidic Acids, Ortho Acids, Ketenes, Ketene Acetals, Yne-K Compounds, Aldehydes, Ketones, Heteroatom Analogues of Aldehydes and Ketones, Quinones and Heteroatom Analogues, Acetals: Hal/X and O/O, S, Se, Te), 'Trends & Innovation' (listing various synthetic methods and concepts), 'Heterarenes' (listing Small-Ring Heterocycles, Monocyclic Five-Membered Heterocycles with One Heteroatom, Fused Five-Membered Heterocycles with One Heteroatom, Five-Membered Heterocycles with One Chalcogen and One Additional Heteroatom, Five-Membered Heterocycles with Two Nitrogen or Phosphorus Atoms, Five-Membered Heterocycles with Three or More Heteroatoms, Six-Membered Heterocycles with One Chalcogen, Six-Membered Heterocycles with One Nitrogen or Phosphorus Atom, Six-Membered Heterocycles with Two Identical Heteroatoms, Six-Membered Heterocycles with Two Unlike or More Than Two Heteroatoms, Larger Hetero-Rings), 'Hydrocarbons' (listing Polyynes, Arenes, Enynes, Alkynes, Cumulenes, Allenes, Arenes, Quasiarenes, Annulenes, Polyenes, 1,3-Dienes, Alkanes, Alkenes), and 'Organometallics' (listing Ni, Pd, Pt, Co, Rh, Ir, Fe, Ru, and Os Compounds (Groups 10-8), Mn, Cr, V, Ti, Sc, Lanthanide, and Actinide Compounds (Groups 7-3), Zn, Cd, Hg, Cu, Ag, and Au Compounds (Groups 12 and 11)). A red box labeled '4' highlights the 'Explore Science of Synthesis' section.

A página inicial é dividida em quatro partes:

1. Barra de navegação superior
2. Área de login pessoal

3. Caixa de pesquisa por texto e citação, além de busca por estrutura e/ou reação
4. Área de destaque

A página de resultados é dividida em três partes:

1. Ferramentas de refinamento lateral
2. Ferramentas de visualização de resultados
3. Resultados de busca

REFINE

FILTER BY:

- No role assigned (272)
- Reaction catalyst (1673)
- Reaction product (2796)
- Reaction reactant (2230)
- Reaction reagent (113)
- Reaction solvent (3)

FILTER BY MATCH TYPE:

- Exact (92)
- Similar (166)
- Substructure (4529)

SORT HITLIST:

- By relevance
- By publication date

Update

Results (Articles found containing your search term, structure or reaction)

Hide All Reactions **Select Page** **Update Hit List** **Delete Hits After This Page** **Reset Hit List**

#1 of 4655

Lead Compounds

5.3 Product Class 3: Lead Compounds
Moloney, M. G., *Science of Synthesis*, (2003) 5, 619.

Hide Reaction **Show Full Text** **Show TOC** **Show Single Step Reactions**

$\text{R}^1\text{Pb(OAc)}_3 \xrightarrow[53-81\%]{5 \text{ mol\% Pd}_2(\text{dba})_3\text{-CHCl}_3, \text{CHCl}_3, \text{rt}, 10 \text{ min}} \text{R}^1-\text{R}^1$
 $\text{R}^1 = \text{Ph, Ar}^1, 2\text{-thienyl, C}\equiv\text{CR}^2$

$\text{Ar}^1\text{Pb(OAc)}_3 + \text{R}^1\text{B(OH)}_2 \xrightarrow[71-80\%]{5 \text{ mol\% Pd}_2(\text{dba})_3\text{-CHCl}_3, 10 \text{ mol\% CuI, NaOMe (6 equiv), DME/MeCN (1:1)}} \text{Ar}^1-\text{R}^1$
 $\text{Ar}^1 = \text{Ph, 4-MeOC}_6\text{H}_4, 2\text{-furyl, 3-furyl, 2-thienyl}; \text{R}^1 = \text{Ph, Ar}^2, (\text{E})\text{-CH=CHPh}$

$\text{Ar}^1\text{Pb(OAc)}_3 + \text{Ar}^2\text{I}^+ \text{BF}_4^- \xrightarrow[62-75\%]{5 \text{ mol\% Pd}_2(\text{dba})_3\text{-CHCl}_3, \text{NaOMe (4 equiv), MeOH/MeCN (1:1), rt, 3 h}} \text{Ar}^1-\text{Ar}^2$
 $\text{Ar}^1 = \text{Ph, 4-MeOC}_6\text{H}_4, 2\text{-thienyl}; \text{Ar}^2 = \text{Ph, 4-MeOC}_6\text{H}_4, 2\text{-thienyl, (E)-CH=CHPh}$

#2 of 4655

Monoarylcopper(I) Compounds

3.4.1.3.4 Method 4: Biaryl Syntheses from Aryl Halides and Copper(I) Salts
Heaney, H.; Christie, S., *Science of Synthesis*, (2004) 3, 361.

Hide Reaction **Show Full Text** **Show TOC** **Show Single Step Reactions**

A página do conteúdo é dividida em três partes:

1. Navegação entre lista de resultados
2. Ferramentas diversas: Download PDF; imprimir; citação; informações
3. Navegação entre conteúdos

The screenshot shows a detailed view of a scientific article from the *Science of Synthesis Knowledge Updates*. The top navigation bar includes links for Query, Results, Full Text, Explore Contents, Training & Support, and MySOS. A red box labeled '1' highlights the 'NAVIGATION' section on the left, which shows 'Hit 1 of 491' and 'Previous / Next' buttons. Another red box labeled '2' highlights the top right corner with download, print, citation, and information icons. A red box labeled '3' highlights the bottom right corner with navigation arrows. The main content area features the title '35.3.1.1.6.3 Azide-Induced Oxidative Iodination with Hydrogen Peroxide and Acetic Anhydride', the DOI (10.1055/sos-SD-135-00098), and a detailed description of the reaction. It mentions the use of environmentally friendly oxidants (hydrogen peroxide, acetic anhydride, sodium azide) to iodinate alkanes and cycloalkanes in an aqueous/organic biphasic mixture. A yellow box labeled 'Scheme 3' shows the reaction: Cyclopentane reacts with I₂, NaN₃, H₂O₂, and Ac₂O in H₂O at 0–40 °C for 6 h to yield 1.33 mmol product per mmol I₂. A chemical structure of Iodocyclopentane (5) is shown. Below the scheme, two cautionary notes warn against the hazards of hydrogen peroxide and sodium azide.

- A Dot.Lib é uma empresa brasileira dedicada à disseminação da informação científica através do fornecimento de acesso online a livros digitais, periódicos eletrônicos e bases de dados nas mais diversas áreas do conhecimento.
- Dotlib TV, um canal repleto de vídeos de conteúdos, tutorias e ferramentas que cobrem as mais diversas áreas de conhecimento. Acesse essas e outras informações, aqui, no nosso canal.



[Site Institucional](http://www.dotlib.com.br)
www.dotlib.com.br

[Dot.Lib TV \(Canal Youtube\)](https://www.youtube.com/c/dotlibtv)
[youtube.com/c/dotlibtv](https://www.youtube.com/c/dotlibtv)



