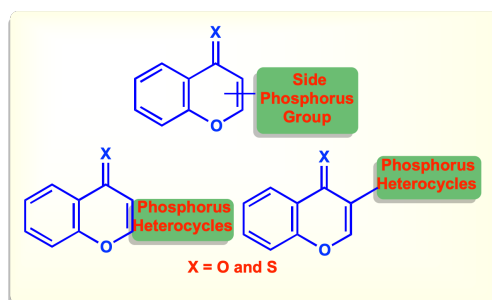


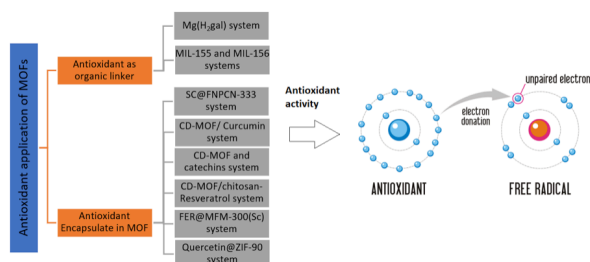
REVIEWS

- 583 **Synthetic Methods for Phosphorus Compounds Containing Chromone and Thiochromone Rings**
 Tarik E. Ali,* Mohammed A. Assiri, Somaia M. Abdel-Kariem, and Ibrahim S. Yahia



Chomone Thiochromone Phosphonate Phosphorus Heterocycle Synthesis

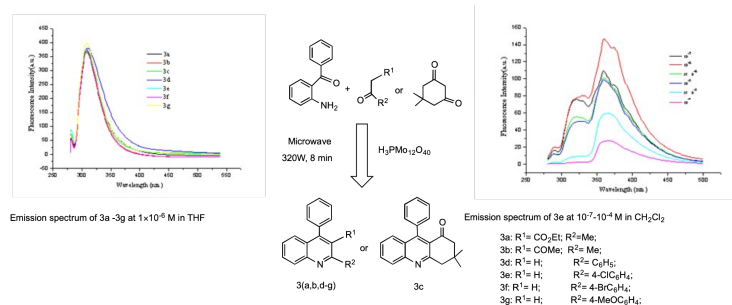
- 622 **Mini Review: Antioxidant Application of Metal-Organic Frameworks and Their Composites**
 Shaikha S. Alneyadi*



Antioxidant Metal-Organic Framework ROS Polymer

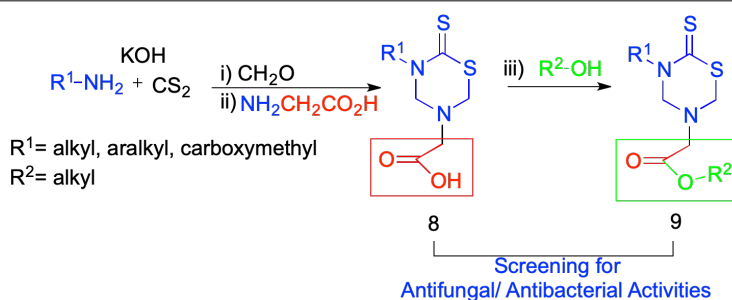
PAPERS

- 647 **Microwave-Assisted and Solvent-Free Synthesis of Quinoline Derivatives and Their Fluorescence Properties**
 Xiaobin Zhang, Xiumei Ma, Yun Ai, Yuanyuan Ren, Xiao Bai, Huan Chen, Ying Zhou, Wenyu Li, Cuiling Wang,* and Yifeng Liu



Microwave-Assisted Synthesis Solvent-Free Synthesis Quinoline Derivative Fluorescence Property

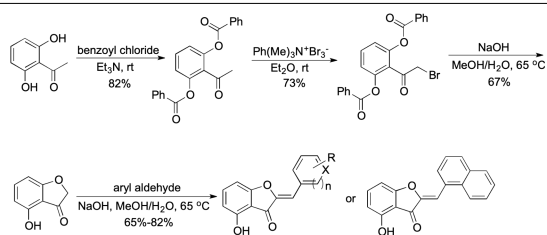
- 659 **3,5-Disubstituted Tetrahydro-2H-1,3,5-thiadiazine-thiones Ester Derivatives and Their Antimicrobial Evaluation**
 Irfan Ullah, Jamshed Hashim,* Nuzhat Arshad,* Muhammad Yaseen, Rasool Khan, Tahseen Iqbal, Syeda Zehra Hamid, Afshan Kanwal, and Iqbal Safi



Thiadiazine Prodrug Ester Analogue Antifungal Activity Antibacterial Activity

675 Synthesis of 4-Hydroxyaurones and Their Herbicidal Activities

Mei Xia, Min Zhang,* Jianfen Ding, Jiankai Hong, Yuting Shen, and Liuqing Yang*



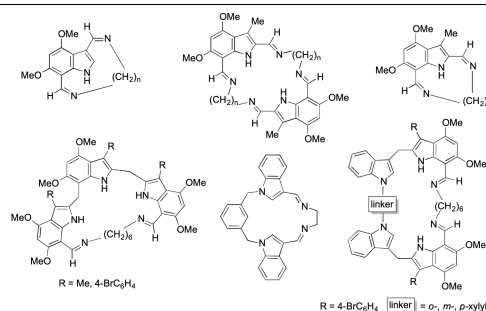
22 examples, up to 82% yield

Potential herbicidal agents against dicotyledons plants for post-emergence treatment

Aurone Synthesis Herbicidal Activity Greenhouse Test

686 Synthesis of Some Macrocyclic Diimines from Mono-, Di-, Tri-, and Tetra-Indolyl Dialdehydes

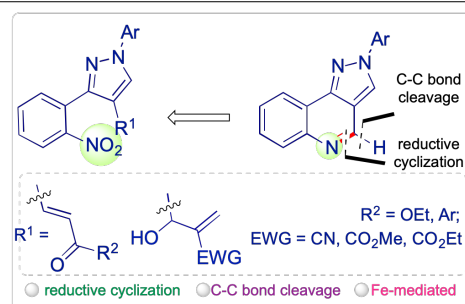
Kittya Somphol, Naresh Kumar, and David StC. Black*



Indole Macrocyclic Compound Diimine Indole Aldehyde Heterocyclic Compound

SHORT PAPERS
705 Synthesis of Pyrazolo[4,3-c]quinolines and the C-C Bond Cleavage during Reductive Cyclization

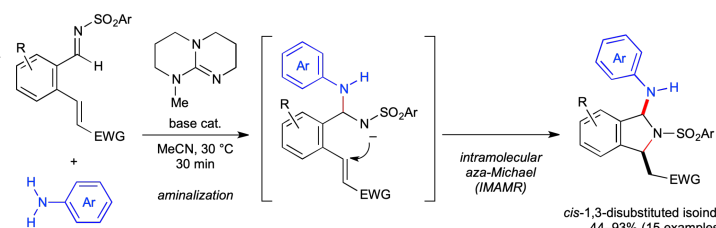
Nisha Devi, Antriksh Gupta, Raghuram Gujjarappa, Chandi C. Malakar,* and Virender Singh*



C-N Bond Formation N-Heterocycle Pyrazole Reductive Cyclization Nitro-Aromatic

723 Catalytic and Diastereoselective Cascade Reaction for the Preparation of *cis*-1,3-Disubstituted Isoindoline-Aminal Hybrid Compounds

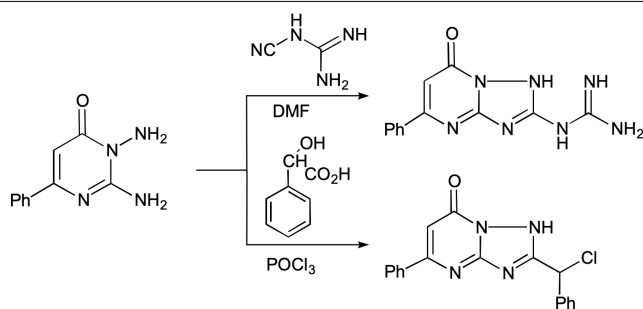
Tetsuya Tsujihara,* Takeyuki Suzuki, and Tomikazu Kawano*


cis-1,3-disubstituted isoindolines
44–93% (15 examples)

Cascade Reaction Amination Aza-Michael Reaction Isoindoline Aminal

731 A Simple Synthesis and Antimicrobial Activity of Some New 1,2,4-Triazolopyrimidine Derivatives

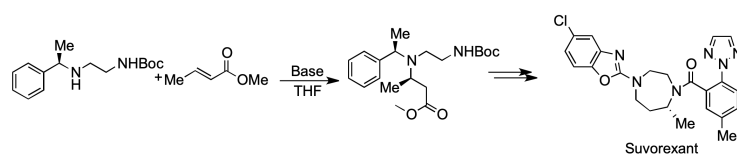
Kamelia M. El-mahdy* and Azza M. El-kazak



Triazolopyrimidine Triazine Triazepine Diazepine Cyclocondensation

743 Synthesis of Anti-Insomnia Drug Suvorexant

Hongshun Yuan, Lei Guo,* and Xianhua Pan*



Suvorexant Enantioselective Synthesis Successive C-N Bond Formation

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 751 Polyketides
- 752 Aromatics
- 758 Terpenes
- 759 Alkaloids
- 763 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

767 Brush Up Your Heterocycles

Contributors To This Issue

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647 Ai, Yun
583 Ali, Tarik E.
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647 Bai, Xiao
686 Black, David StC.
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705 Devi, Nisha
675 Ding, Jianfen
731 El-kazak, Azza M.
731 El-mahdy, Kamelia M.
705 Gujjarappa, Raghuram
743 Guo, Lei
705 Gupta, Antriksh
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723 Kawano, Tomikazu
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647 Liu, Yifeng
647 Ma, Xiumei
705 Malakar, Chandi C.
743 Pan, Xianhua
647 Ren, Yuanyuan
659 Safi, Iqbal
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723 Tsujihara, Tetsuya
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647 Wang, Cuiling
675 Xia, Mei
583 Yahia, Ibrahim S.
675 Yang, Liuqing
659 Yaseen, Muhammad
743 Yuan, Hongshun
675 Zhang, Min
647 Zhang, Xiaobin
647 Zhou, Ying