

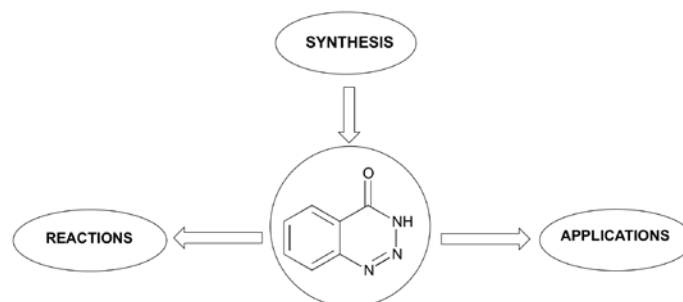
■ ANNOUNCEMENT

1 Heterocycles Award

■ REVIEW

3 1,2,3-Benzotriazin-4(3H)-ones: Synthesis, Reactions and Applications

Zunera Khalid, Hafiz Adnan Ahmad, Munawar Ali Munawar,*
Misbah-ul-Ain Khan, and Salman Gul



Anthranilamide Antidepressant 1,2,3-Benzotriazin-4(3H)-one Derivative Benzazimide Imaging and Recording Material

■ COMMUNICATIONS

55 A Simple Approach Synthesis of Benzo[*b*]pyrazolo-[3,2-*h*]-[1,6]naphthyridin-1(2*H*)-ones

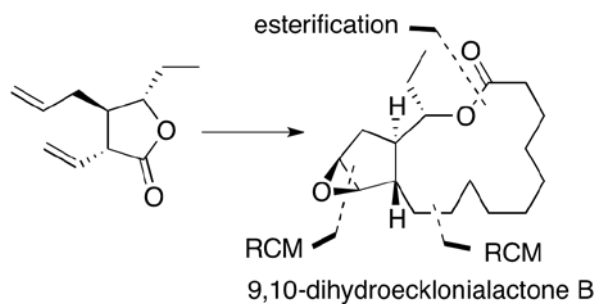
Jian-Nan Yang, Dao-Lin Wang, and Jian-Hua Qian



[1,6]Naphthyridine α -(Dimethylaminomethylene)-2-cyanomethylquinoline-3-carboxylate Pyrazolo[3,2-*h*][1,6]naphthyridinone Domino Reaction

59 **Enantioselective Protecting-Group-Free Synthesis of (+)-9,10-Dihydroecklonialactone B**

Asmaa Said Ali Yassen, Jun Ishihara, and Susumi Hatakeyama*

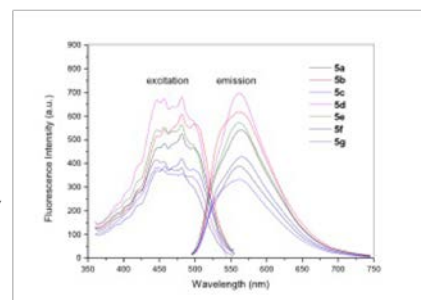
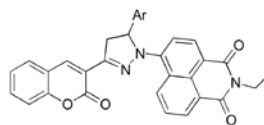


Enantioselective Synthesis Protecting-Group-Free Synthesis Ecklonialactone

■ PAPER

65 **Synthesis and Optical Properties Research of Some Novel Trichromophore Compounds Containing Coumarin, Pyrazoline and Naphthalimide Groups**

Wu Gongying, Zhao Fang, Hu Yang, and Hu Shengli*

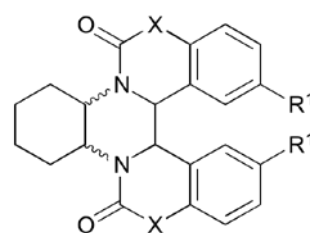


Coumarin Pyrazoline Naphthalimide Trichromophore Compound

■ SHORT PAPERS

75 **Efficient and Diastereoselective Synthesis of bis-Quinazolinone Derivatives via Low-Valent Titanium Reagent**

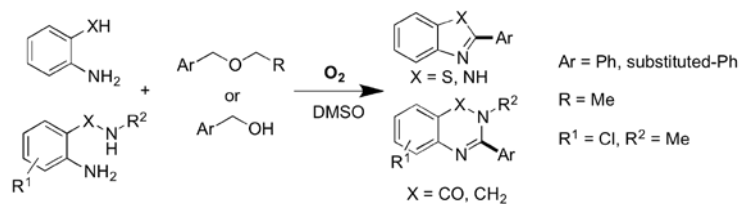
Wei Lin,* Yazhen Wang, Yongxiang Zheng, and Daqing Shi*



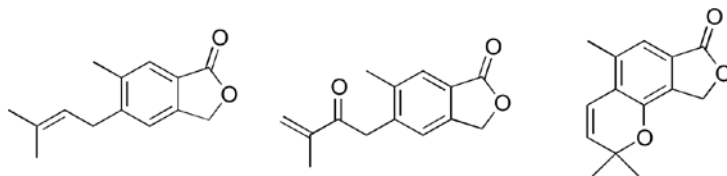
X = O, NH

Diastereoselective Synthesis Diquinazolinone

86 Efficient Construction of *N*-Heterocycles from Benzylic Ethers/Alcohols and *o*-Substituted Anilines without Using Any Catalyst and Additive

 Xiuling Chen, Hongxue Qi, Shaofeng Wu, Leng Liu,*
 Jianhui Wen, Wanxi Li, Fang Guo, Yongjun Bian,
 and Jun Li*

N-Heterocyclic Compound C-O Bond Cleavage Reaction Benzylic Ether Benzylic Alcohol

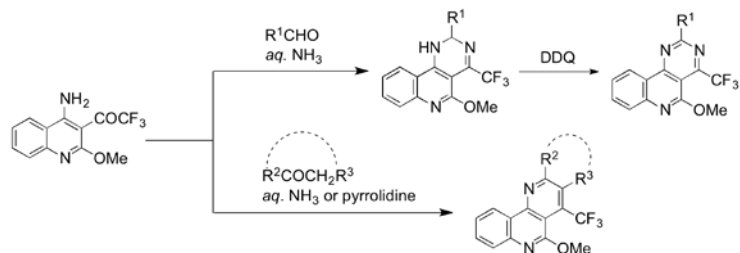
95 Three New Isobenzofurans from the Root of Yunnan Local Sun Cured Tobacco and Their Bioactivities

 Zhen-Yuan Xia, Li-Fang Zhang, Xiao-Han Mo, Yu-ping Wu,
 Ling Ye, Dan-Yu Tang, Feng-Mei Zhang, Pei He, Zhi-Hua Liu,
 Qin-Peng Shen, Chun-Bo Liu, and Tian-fei Li*


Isobenzofuran Sun Cured Tobacco Anti-Tobacco Mosaic Virus Activity Cytotoxicity Activity

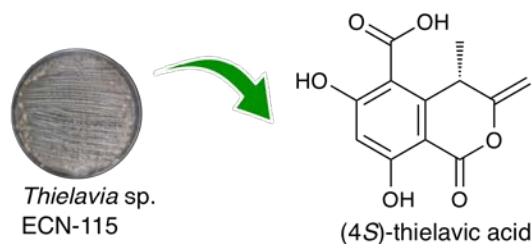
102 Facile and Convenient Syntheses of Fluorine-Containing Pyrimido[5,4-*c*]quinolines and Benzo[*h*][1,6]-naphthyridines by Condensation Reaction of 2-Methoxy-3-trifluoroacetyl-4-quinolylamine with Aldehydes and Ketones

Mizuki Hatakenaka and Etsuji Okada*



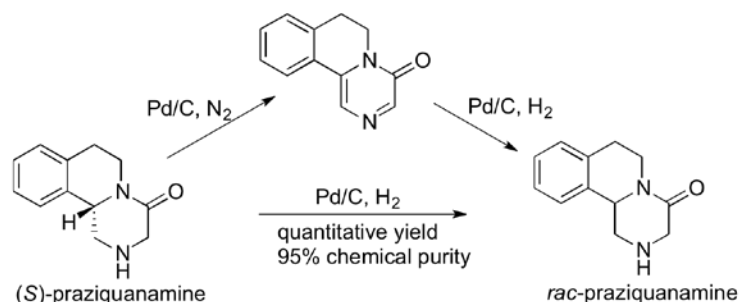
Ring Construction Reaction Pyrimidoquinoline Benzonaphthyridine Three-Component Condensation Friedländer-type Cyclization Reaction

117 A New Isocoumarin Derivative from an Endophytic Fungus *Thielavia* sp. Isolated from *Crassula ovata*

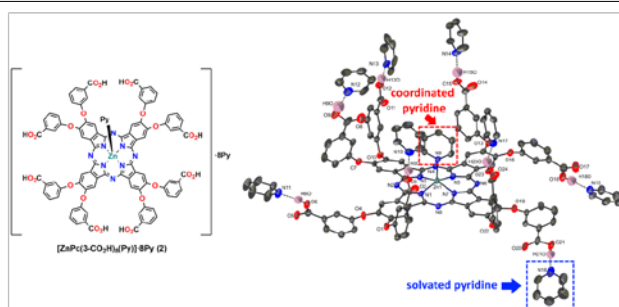
 Ken-ichi Nakashima,* Junko Tomida, Takao Hirai, Yuji Morita,
 Yoshiaki Kawamura, and Makoto Inoue


Endophytic Fungi Isocoumarin Natural Product Chemistry

122 One-Pot Palladium-Catalyzed Racemization of (*S*)-Praziqanamine: A Key Intermediate for the Anthelmintic Agent (*R*)-Praziquantel

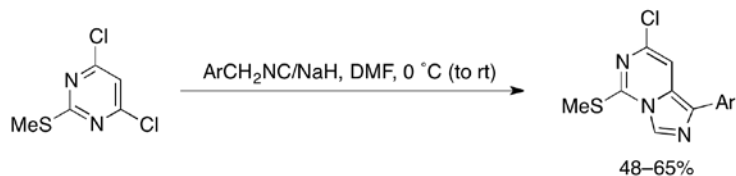
 Zhezhou Yang, Xiang Guo, Shanghu Xu, Huirong Jiao,
 Zhinmin Tan, and Fuli Zhang*

 (*R*)-Praziquantel (*S*)-Praziqanamine Racemization Pd/C Catalyst Imine

131 Molecular Structure and Spectroscopic Properties of [2,3,9,10,16,17,23,24-Octakis(3-carboxyphenoxy)-phthalocyaninato-κ⁴N](pyridine-κN)zinc(II) Pyridine Octasolvate

 Rei Fujishiro, Hayato Sonoyama, Yuki Ide, Shigeki Mori,*
 Tamotsu Sugimori, Atsushi Nagai, Katsumi Yoshino,
 Mikio Nakamura, and Takahisa Ikeue*


Phthalocyanine Crystal Structure Zn(II) Complex Pyridine Coordination

140 One-Pot Synthesis of Imidazo[1,5-c]pyrimidine Derivatives from a 4,6-Dichloropyrimidine Derivative and Benzyl Isocyanides

 Kazuhiro Kobayashi,* Daiki Fujiwara, Yuuho Shigemura,
 Hidetaka Hiyoshi, and Kazuto Umezu

 Imidazo[1,5-c]pyrimidine Benzyl Isocyanide α -Metallated Isocyanide 4,6-Dichloro-2-(methylsulfanyl)pyrimidine (DCSMP) One-Pot Synthesis

■ TOTAL SYNTHESIS OF HETEROCYCLIC NATURAL PRODUCTS

- 147 Polyketides
- 152 Aromatics
- 154 Terpenes
- 156 Alkaloids
- 177 Miscellaneous

■ BRUSH UP YOUR HETEROCYCLES

179 Brush Up Your Heterocycles

Contributors To This Issue

3	Ahmad, Hafiz Adnan	86	Wu, Shaofeng
86	Bian, Yongjun	95	Wu, Yu-ping
86	Chen, Xiuling	95	Xia, Zhen-Yuan
65	Fang, Zhao	122	Xu, Shanghu
131	Fujishiro, Rei	65	Yang, Hu
140	Fujiwara, Daiki	55	Yang, Jian-Nan
65	Gongying, Wu	122	Yang, Zhezhou
3	Gul, Salman	59	Yassen, Asmaa Said Ali
86	Guo, Fang	95	Ye, Ling
122	Guo, Xiang	131	Yoshino, Katsumi
102	Hatakenaka, Mizuki	95	Zhang, Feng-Mei
59	Hatakeyama, Susumi	122	Zhang, Fuli
95	He, Pei	95	Zhang, Li-Fang
117	Hirai, Takao	75	Zheng, Yongxiang
140	Hiyoshi, Hidetaka		
131	Ide, Yuki		
131	Ikeue, Takahisa		
117	Inoue, Makoto		
59	Ishihara, Jun		
122	Jiao, Huirong		
117	Kawamura, Yoshiaki		
3	Khalid, Zunera		
3	Khan, Misbah-ul-Ain		
140	Kobayashi, Kazuhiro		
86	Li, Jun		
95	Li, Tian-fei		
86	Li, Wanxi		
75	Lin, Wei		
95	Liu, Chun-Bo		
86	Liu, Leng		
95	Liu, Zhi-Hua		
95	Mo, Xiao-Han		
131	Mori, Shigeki		
117	Morita, Yuji		
3	Munawar, Munawar Ali		
131	Nagai, Atsushi		
131	Nakamura, Mikio		
117	Nakashima, Ken-ichi		
102	Okada, Etsuji		
86	Qi, Hongxue		
55	Qian, Jian-Hua		
95	Shen, Qin-Peng		
65	Shengli, Hu		
75	Shi, Daqing		
140	Shigemura, Yuuho		
131	Sonoyama, Hayato		
131	Sugimori, Tamotsu		
122	Tan, Zhinmin		
95	Tang, Dan-Yu		
117	Tomida, Junko		
140	Umezu, Kazuto		
55	Wang, Dao-Lin		
75	Wang, Yazhen		
86	Wen, Jianhui		