#### **ARKIVOC Volume 2007**

# Part (viii): Commemorative Issue in Honor of Prof. Waldemar Adam on the occasion of his 70th anniversary

Facilitator: Heiko Ihmels Scientific Editor: Mikael Begtrup

#### 1. A Tribute to Prof. Waldemar Adam (WA-1420AT)

Full Text: PDF (229K)

pp. 1 - 6

accepted Apr 3 2006; published Apr 26 2006;

#### 2. Light-induced reactions of 2,2-bis(2,2-dimethylethyl)- $6H\hat{A}$ -1,3-oxaselenin-6-one in methanol (WA-

1828AP)

Kentaro Okuma, Kerstin Schmidt and Paul Margaretha

Full Text: PDF (114K)

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received Feb 17 2006; accepted Mar 30 2006; published May 3 2006;

#### 3. Intramolecular cycloaddition reaction of bromo and nitro substituted furanyl amides (WA-1982AP)

Albert Padwa, Kenneth R. Crawford and Christopher S. Straub

Full Text: PDF (294K)

pp. 14 - 25

received Jul 1 2006; accepted Aug 6 2006; published Aug 26 2006;

### **4.** Fused heterocycles **11.**<sup>1</sup> Synthesis of tricyclic fused pyrazolines by the reaction of **3**-arylidenechromanones and **3**-arylidene-**1**-thiochromanones with hydrazine (WA-1981AP)

Albert Lévai, Katalin E. Kövér and József Jekő

Full Text: PDF (278K)

pp. 26 - 39

X: O, S; R1: H, Me, MeO, CI; R2: Me, Et

received Jul 1 2006; accepted Sep 18 2006; published Sep 23 2006;

### **5.** Water-resistant Lewis-acid sites: carbonyl-ene reactions catalyzed by tin-containing, hydrophobic molecular sieves (WA-2036AP)

Avelino Corma and Michael Renz

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#### 6. An improved synthesis for the (*Z*)-14-methyl-9-pentadecenoic acid and its topoisomerase I inhibitory activity (WA-2089AP)

Néstor M. Carballeira, David Sanabria and Delise Oyola

Full Text: PDF (145K)

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received Aug 16 2006; accepted Oct 12 2006; published Oct 21 2006;

# 7. Exo-selective formation of bicyclic oxetanes in the photocycloaddition reaction of carbonyl compounds with vinylene carbonate: the important role of intermediary triplet diradicals in the stereoselectivity (WA-2111AP)

Manabu Abe, Kana Taniguchi and Takashi Hayashi

Full Text: PDF (71K)

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R<sup>1</sup> 
$$R^2$$
  $h\nu$ ,  $O = 0$   $2$   $CH_3CN$ ,  $rt$   $O = 0$   $R^2$   $O = 0$   $R^2$   $O = 0$   $R^2$   $O = 0$   $R^2$   $O = 0$   $O = 0$ 

$$R^1 = Ph, R^2 = H; R^1 = Ac, R^2 = Me; R^1 = CO_2Et, R^2 = Ph;$$

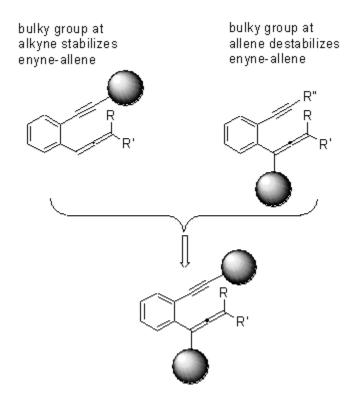
received Aug 25 2006; accepted Oct 12 2006; published Oct 21 2006;

#### 8. Steric effects in the thermal C<sup>2</sup>-C<sup>6</sup> diradical cyclization of enyne-allenes (WA-2085AP)

Michael Schmittel, Marc Strittmatter, Atul A. Mahajan, Chandrasekhar Vavilala, Mehmet Emin Cinar and Michael Maywald

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pp. 66 - 84



received Aug 14 2006; accepted Oct 11 2006; published Oct 25 2006;

## 9. Photooxygenation of chiral 1,3-cyclohexadienes: strong influence of substituents on the stereo- and mode selectivities (WA-2053AP)

Torsten Linker, Tobias Krüger, Wilfried Hess and Gerhard Hilt

Full Text: PDF (323K)

pp. 85 - 96

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#### 10. Synthesis of 2H-pyran-2-ones and fused pyran-2-ones as useful building blocks (WA-2151AP)

Franc Poâzgan, Kriâstof Kranjc, Vladimir Kepe, Slovenko Polanc and Marijan Kočevar

Full Text: PDF (310K)

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$$R^{1} = \frac{R^{3}C(0 \text{Me})_{2} \text{NMe}_{2}}{R^{2}} = \begin{bmatrix} 0 & R^{3} \\ R^{1} & N \text{Me}_{2} \end{bmatrix} = \frac{1) \text{ Phconhch}_{2}\text{CO}_{2}\text{H}}{Ac_{2}\text{O}, \Delta} = \frac{Ac_{2}\text{O}, \Delta}{[2] \text{ PyH/NB}_{3}, \Delta]}$$

$$R^{1} = 0 & R^{2} & N \text{H}_{2}$$

$$R^{2} = 0 & N \text{H}_{2}$$

$$R^{3} = 0 & N \text{H}_{2}$$

$$R^{3} = 0 & N \text{H}_{2}$$

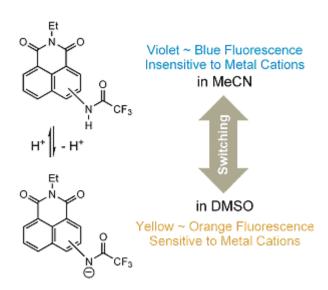
received Sep 12 2006; accepted Oct 31 2006; published Nov 10 2006;

### 11. Fluorescence properties of 3- and 4-trifluoroacetylamino-1,8-naphthalimides: Solvent-controlled switching of fluorescence color and response to metal-cations (WA-2131AP)

Hideki Okamoto, Kyosuke Satake and Masaru Kimura

Full Text: PDF (1,026K)

pp. 112 - 123



received Sep 1 2006; accepted Nov 1 2006; published Nov 10 2006;

### **12.** Synthesis of novel polar derivatives of the antimalarial endoperoxides ascaridole and dihydroascaridole (WA-2109AP)

Emmanuel Hatzakis, Igor Opsenica, Bogdan A. Solaja and Manolis Stratakis

Full Text: PDF (310K)

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#### 13. Synthesis of 9-amino- and 9-sulfanyl-substituted benzo[b]quinolizinium derivatives (WA-2128AP)

Anton Granzhan and Heiko Ihmels

Full Text: PDF (247K)

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$$X = Br, F$$

HY

EtOH

reflux

 $Y = NHAlk, NAlk_2, NHAr, SR$ 

received Aug 31 2006; accepted Nov 1 2006; published Nov 15 2006;

### **14.** The substituent effect on the cycloheptatriene-norcaradiene equilibrium. Reaction of singlet oxygen with substituted cycloheptatrienes (WA-2045AP)

Murat Çelik and Metin Balci

Full Text: PDF (265K)

pp. 150 - 162

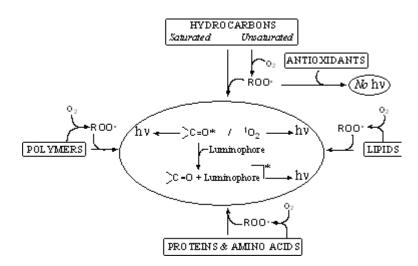
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### **15.** Peroxy-radical-mediated chemiluminescence: mechanistic diversity and fundamentals for antioxidant assay (WA-2106AR)

Galina F. Fedorova, Alexey V. Trofimov, Rostislav F. VasilÂ'ev and Timur L. Veprintsev

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pp. 163 - 215



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#### 16. Synthesis of (6S)-6-hydroxy-4-epi-shikimic acid (WA-2130AP)

Axel G. Griesbeck, Claus Miara and JA¶rq NeudA¶rfl

Full Text: PDF (339K)

pp. 216 - 223

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### 17. Chemical and transient spectroscopic evidence for radical and ionic pathways in the photolysis of 3-halo-2,3-dihydrobenzopyran-4-ones (WA-2208AP)

Julio Delgado, Amparo Espinós, M. Consuelo Jiménez and Miguel A. Miranda

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### **18.** Photoinduced modifications by fluoroquinolone drugs in bovine serum albumin (BSA) and ribonuclease A (RNAse) as model proteins (WA-2116AP)

Francesco DallÂ'Acqua, Giampietro Viola, Daniela Vedaldi, Gian Gaetano Aloisi, Fausto Elisei, Loredana Latterini and Rosita Passeri

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pp. 231 - 244

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### 19. Determination of physical $(k_q)$ and chemical $(k_r)$ rate constants for singlet oxygen quenching using the thermolysis of a naphthalenic endoperoxide in H<sub>2</sub>O and D<sub>2</sub>O (WA-2137AP)

Christel Pierlot, Véronique Nardello, Reinhard Schmidt and Jean-Marie Aubry

Full Text: PDF (97K)

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$$\begin{array}{c} \text{CH}_2\text{OH} \\ \text{HO} \\ \text{OH} \\$$

received Sep 5 2006; accepted Dec 29 2006; published Jan 10 2007;

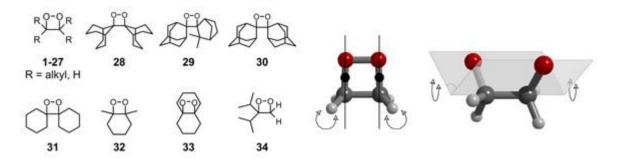
#### 20. Theoretical studies on thermal stability of alkyl-substituted 1,2-dioxetanes (WA-2191AP)

Erick L. Bastos and Wilhelm J. Baader

Full Text: PDF (927K)

Supplementary Material: PDF (198K)

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#### 21. Application of triethylammonium salts as ionic liquid catalyst and medium for Fischer esterification (WA-2277AP)

Pralhad A. Ganeshpure, Gigi George and Jagannath Das

Full Text: PDF (184K)

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R-CO<sub>2</sub>H + R'-OH 
$$\frac{\text{Ionic liquid}}{\text{Poly}} = \text{R-CO}_{2}R' + \text{H}_{2}O$$

$$\text{Ionic liquid} = [(C_{2}H_{5})_{3}NH][HSO_{4}], \quad [(C_{2}H_{5})_{3}NH][H_{2}PO_{4}]$$

$$\text{and} \quad [(C_{2}H_{5})_{3}NH][BF_{4}]$$

received Nov 27 2006; accepted Jan 10 2007; published Jan 23 2007;

#### 22. Carotenylflavonoids, a novel group of potent, dual-functional antioxidants (WA-2103AP)

Stefan Beutner, Susanne Frixel, Hansgeorg Ernst, Thomas Hoffmann, Ines Hernandez-Blanco, Claas Hundsdoerfer, Nicole Kiesendahl, Sebastian Kock, Hans-Dieter Martin, Bernhard Mayer, Peter Noack, Antonio Perez-Galvez, Grit Kock, Roger Scherrers, Wolfgang Schrader, Stefan Sell and Wilhelm Stahl Full Text: PDF (330K)

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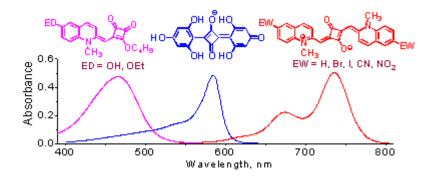
received Aug 24 2006; accepted Jan 14 2007; published Jan 23 2007;

### 23. Development of squaraine dyes for photodynamic therapeutical applications: synthesis and study of electronic factors in the dye formation reaction (WA-2117AP)

Kuthanapillil Jyothish, Rekha R. Avirah and Danaboyina Ramaiah

Full Text: PDF (742K)

pp. 296 - 310



received Aug 29 2006; accepted Jan 17 2007; published Jan 25 2007;

#### 24. Chemical, biological and evolutionary aspects of beetle bioluminescence (WA-2184AU)

Etelvino J. H. Bechara, Cleide Costa, Pio Colepicolo, Vadim Viviani, Marcelo P. Barros, Graham S. Timmins, Abner B. Lallf, Walter R. Terra, Clélia Ferreira, Cassius V. Stevani and Moacir A. Torres Full Text: PDF (271K)

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#### An account with 51 references

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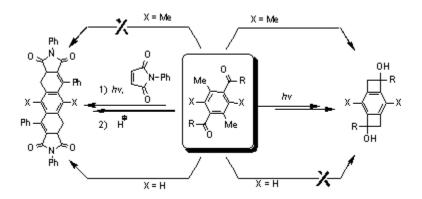
# 25. Photochemistry of dicarbonyl-substituted benzenes: influence of steric and electronic factors in the cyclization and Diels-Alder trapping reactions of photoenols (WA-2153AP)

Jarugu Narasimha Moorthy and Subhas Samanta

Full Text: PDF (339K)

Supplementary Material: PDF (2,100K)

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### **26.** Bridgehead carboxy-substituted **2,3**-diazabicyclo[**2.2.2**]oct-**2**-enes: synthesis, fluorescent properties, and host-guest complexation (WA-2200AP)

Andreas Hennig, Thomas Schwarzlose and Werner M. Nau

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pp. 341 - 357

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