ARKIVOC Volume 2005

Part (x): Commemorative Issue in Honor of Prof. Alexandru T. Balaban on the occasion of his 75th anniversary

Facilitator: Ion Ghiviriga Scientific Editor: Ken Turnbull

1. A Tribute to Prof. Alexandru Balaban (AB-1403BT)

Ion Ghiriviga

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accepted Sep 23 2004; published Dec 3 2004;

2. Two approaches to a new heterocyclic system of pyrazolo[4,3-*e*][1,2,4]triazolo[1,5-*c*]pyrimidine (AB-1174BP)

Valery V. Mezheritsky, Vladimir I. Minkin, Lyudmila G. Minyarva, Roman V. Tyurin, Valery V. Krasnikov, Eugeny V. Vorobyev and Zoya A. Starikova

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received May 26 2004; accepted Aug 13 2004; published Dec 10 2004;

3. RuO₄-mediated oxidation of *N*-benzylated tertiary amines. 2. Regioselectivity for *N*,*N*-dimethyl- and *N*,*N*-diethylbenzylamine as substrates (AB-1275BP)

Horia Petride, Oana Costan, Constantin Draghici, Cristina Florea and Aurica Petride

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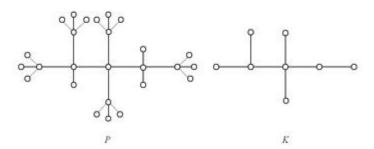
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4. Paths and walks in acyclic structures: Kenograms versus plerograms (AB-1245BP)

Damir Vukicevic, Ante Milicevic, Sonja Nikolic, Jelena Sedlar and Nenad Trinajstic

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5. QSAR study for diarylguanidines, noncompetitive NMDA receptor antagonists. A new topological index A_{Ad} derived from local invariants of the chemical graphs of diarylguanidines (AB-1300BP) *Adrian Beteringhe, Petru Filip and Laszlo Tarko*

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6. Cholesteryl derivatives with sulfonyl moiety (AB-1254BP)

Carmen Topala, Miron T. Caproiu and Constantin Draghici

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$$R = R_1 - R_2 - R_2 - R_3 - R_4 - R_5 -$$

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7. Azulenic ß diketones. Synthesis, properties and five membered aromatic heterocyles building (AB-1309BP)

Alexandru C. Razus, Liviu Birzan, Stefania Nae, Oana Luiza Lehadus, Claudia Pavel and Oana Costan Full Text: PDF (194K)

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8. (-)-(*R*,*R*)-*N*,*N*'-Bis(3-nitro-salicylidene)-1,2-cyclohexanediamine as a new host compound for aromatic guests through CH/JI interactions (AB-1325BP)

Esfandiar Rafii, Michel Giorgi, Nicolas Vanthuyne and Christian Roussel

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9. A new approach for the synthesis of benzo[f]pyrrolo[1,2-α]-quinolines (AB-1351BP)

Emilian Georgescu, Constantin Draghici, Paula C. Iuhas and Florentina Georgescu

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$$\begin{array}{c|c} & & & & \\ & & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & & \\$$

received Jan 25 2005; accepted Mar 22 2005; published Mar 7 2005;

10. Recent developments in design and synthesis of well-defined ruthenium metathesis catalysts – a highly successful opening for intricate organic synthesis (AB-1334BR)

Ileana Dragutan, Valerian Dragutan and Petru Filip

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11. Structure of the acylation products from **3,6**-disubstituted and **3,6,7**-trisubstituted **1***H*-pyrazolo[**5,1**-*c*] [**1,2,4**]triazoles (AB-1326BP)

Bercean Vasile-Nicolae, Badea Valentin, Venter Monica, Medeleanu Mihai, Csunderlik Carol

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12. Novel dicyanomethylene compounds from the reaction of 2-aryl-2,3-dihydro-1*H*-pyrrolo[3,4-*b*]quinoxalines with ethenetetracarbonitrile (AB-1343BP)

Alaa A. Hassan, Kamal M. El-Shaieb and Dietrich Döpp

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13. Coupled photocatalytic electron-transfers with **4,4Â**′-bipyridinium derivatives of a betaine alkaloid from *Punica granatum* (AB-1360BP)

Andreas Schmidt, Thorsten Mordhorst, Henning Fleischhauer, Gunnar Jeschke

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14. 1,3-Dipolar cycloaddition reactions of 1-(3-nitrophenacyl)-1,10-phenanthrolinium *N***-ylide with activated alkynes** (AB-1295BP)

Florea Dumitrascu, Constantin Draghici, Mino R. Caira, Andrei Badoiu, Loredana Barbu, Mihaela Cristea Full Text: PDF (117K)

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15. The homologation of carbonyl compounds by single carbon insertion reactions (AB-1513BR)

Alan R. Katritzky, Sergey Bobrov

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$$\begin{bmatrix} \text{LiO} & \text{CHBr}_2 \\ \text{R} & \text{R}^1 \end{bmatrix} \xrightarrow{\text{Dase}} \begin{bmatrix} \text{R}^2 \\ \text{base} \\ \text{(ii)} \end{bmatrix} \xrightarrow{\text{(ii)}} \begin{bmatrix} \text{R}^2 \\ \text{R}^2 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{Lewis} \\ \text{R}^2 \\ \text{Bt} \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{Lewis} \\ \text{R}^2 \\ \text{R}^3 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{Lewis} \\ \text{R}^2 \\ \text{R}^3 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{R}^3 \\ \text{R}^2 \\ \text{R}^3 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{R}^3 \\ \text{R}^2 \\ \text{R}^3 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{R}^3 \\ \text{R}^3 \\ \text{R}^3 \end{bmatrix} \xrightarrow{\text{R}^3} \begin{bmatrix} \text{R}$$

received Apr 18 2005; accepted Jun 8 2005; published Jun 17 2005;

16. Structure, liquid and solid state synthesis for dimers via [3+3] dipolar cycloadditions (AB-1503BP)

Gheorghita N. Zbancioc, Maria C. Caprosu, Costel C. Moldoveanu, Ionel I. Mangalagiu

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17. Synthesis of hydroxylated 3,5-diaryl-2-pyrazolines by the reaction of hydroxychalcones with hydrazines (AB-1524BP)

Albert Lévai and József Jeko

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$$R^{1} \xrightarrow{A} R^{2} \xrightarrow{XNHNH_{2}} R^{1} \xrightarrow{A} R^{2}$$

$$X = H, Ph$$

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$$X = H, Ph$$

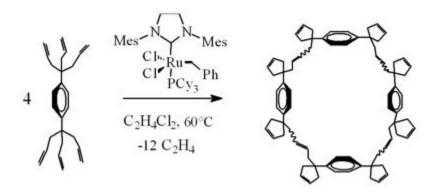
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18. *N*-Heterocyclic carbenes as highly efficient ancillary ligands in homogeneous and immobilized metathesis ruthenium catalytic systems (AB-1512BR)

Ileana Dragutan, Valerian Dragutan and Albert Demonceau

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19. Sweetness power QSARs by PRECLAV software (AB-1391BP)

Tarko Laszlo, Lupescu Irina, Groposila-Constantinescu Diana

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PRECLAV QSAR SWEETENERS PRECLAV QSAR

received Mar 18 2005; accepted Jun 8 2005; published Jun 30 2005;

20. Pyridinium chlorides equipped with long chains as amphiphiles for potential nonviral gene delivery (AB-1583BP)

Mariana Viorica Bogatian, Valentin Cimpeanu, Calin Deleanu, Andreea Cristina Corbu, Gheorghe Bogatian and Teodor Silviu Balaban

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21. A practical synthesis of L-threo-dihydrosphingosine (safingol), an antineoplastic and antipsoriatic agent (AB-1589BP)

Lian Hao Zhang, Daniela C. Oniciu, Emil Pop, Ralf Mueller and Bruce H. McCosar

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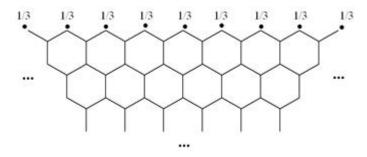
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22. Mean-field resonance-theoretic view of benzenoid networks (AB-1635BP)

D. J. Klein and T. Ivanciuc

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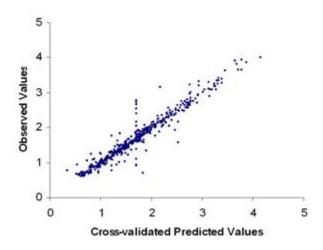
23. Development of quantitative structure-activity relationship models for vapor pressure estimation using computed molecular descriptors (AB-1629BP)

Subhash C. Basak, Denise Mills

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Prediction of Vapor Pressure



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