M I H A I V. P U T Z

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Timişoara Iulie 2026

LISTA DE LUCRĂRI

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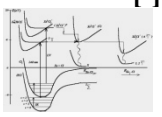
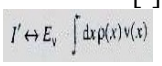
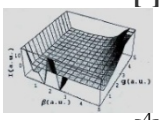
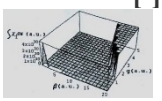
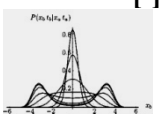
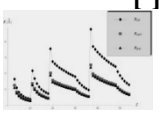
(i) TEZE DE DOCTORAT ŞI TEZA DE ABILITARE.....2
(ii) ARTICOLE ISI THOMPSON REUTERS.....3
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(iv) CĂRȚI ȘI MONOGRAFII.....24
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(i) TEZE DE DOCTORAT ŞI ABILITARE

Informaţii Teza de Doctorat	**Data Susţinerii**
PUTZ M.V. *CONTRIBUŢII LA TEORIA FUNCŢIONALEI DENSITATE CU APLICAŢII ÎN TEORIA REACTIVITĂŢII CHIMICE ŞI A ELECTRONEGATIVITĂŢII* ***Universitatea de Vest din Timişoara*** publicată ulterior în limba Engleză *Contributions within Density Functional Theory with Applications to Chemical Reactivity Theory and Electronegativity* în versiune extinsă la Disertation. Com, Parkland, Florida, USA (2003) pag. 180; ISBN: 1-58112-184-9; ♣URL: http://dissertation.com/books/1581121849	**2002** **15 Martie** **DOCTORAT CHIMIE**
PUTZ M.V. *DINAMICA STRATEGICĂ A POTENŢIALULUI DE CERCETARE-DEZVOLTARE-INOVARE ÎN (META)CLUSTERE NANOTEHNOLOGICE* ***Universitatea de Vest din Timişoara*** publicată ulterior în limba Engleză, in co-autorat extins (cu Prof. Ioan I. Petrișor) *The Code Of Strategic Management* la Apple Academic Press USA& Canada (2022/2023) pag. 250; ISBN:; ♣URL:	**2021** **24 Septembrie** **DOCTORAT MANAGEMENT**

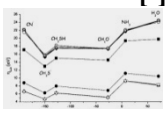
Informaţii Teza de Abilitare	**Data Susţinerii**
PUTZ M.V. *CHEMICAL ORTHOGONAL SPACES OF ATOMS AND MOLECULES* ***Universitatea Babes-Bolyai din Cluj-Napoca*** și publicată în volumul cu titlul *Chemical Orthogonal Spaces* în seria Mathematical Chemistry Monographs, Vol. 14, University of Kragujevac, Serbia (2012), X + pp. 240 Hardcover, 12 color illus.; ISBN: 978-86-6009-019-7; ♣URL: https://match.pmf.kg.ac.rs/mcm14.html	**2013** **20 Martie** **ABILITARE CHIMIE**

(ii) ARTICOLE ISI THOMPSON REUTERS

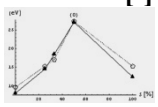
Nr.	Articol	[Index Web-Impact Factor Graphical Abstract
1.	**PUTZ M.V.**, CHIRIAC A., MRACEC M. Models of Photomobility Selectivity in Rare Gas Matrices *Revue Roumaine de Chimie* 46(2) (**2001**) 153-160	[1] 
2.	**PUTZ M.V.**, CHIRIAC A., MRACEC M. Foundations for a Theory of the Chemical Field. I. General Aspects *Revue Roumaine de Chimie* 46(4) (**2001**) 387-393; dedicated to Professor Dr. Alexandru T. Balaban, member of the RomanianAcademy, on the occasion of his 70th anniversary	[2] 
3.	**PUTZ M.V.**, CHIRIAC A., MRACEC M. Foundations for a Theory of the Chemical Field. II. The Chemical Action *Revue Roumaine de Chimie* 46(10) (**2001**) 1175-1181	[3] 
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5.	KLEINERT H., PELSTER A., **PUTZ M.V.** Variational Perturbation Theory for Markov Processes *Physical Review E* 65(6) (**2002**) 066128/1-7; DOI: 10.1103/PhysRevE.65.066128 ♣URL: http://link.aps.org/abstract/PRE/v65/e066128; ♣URL: http://arxiv.org/abs/cond-mat/0202378	[5] 
6.	**PUTZ M.V.**, RUSSO N., SICILIA E. Atomic Radii Scale and Related Size Properties from Density Functional Electronegativity Formulation *Journal of Physical Chemistry A* 107(28) (**2003**) 5461-5465; DOI:10.1021/jp027492h ♣URL: http://pubs.acs.org/doi/abs/10.1021/jp027492h?prevSearch=&searchHistoryKey	[6] 
7.	**PUTZ M.V.** Electronic Density from Structure Factor Determination in Small Deformed Crystals *International Journal of Quantum Chemistry* 94(4) (**2003**) 222-231; DOI: 10.1002/qua.10475 ♣URL: http://onlinelibrary.wiley.com/doi/10.1002/qua.10475/abstract	[7] 

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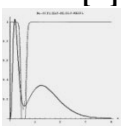
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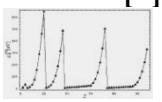
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114(1-3) (**2005**) 38-45; DOI:10.1007/s00214-005-0641-4
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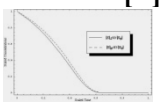
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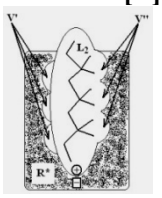
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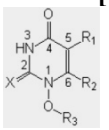
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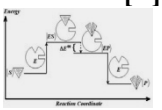


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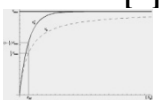


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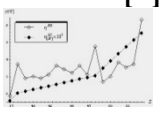
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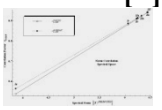
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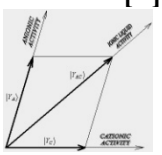
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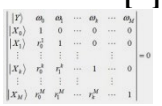
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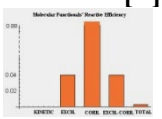
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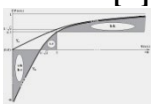


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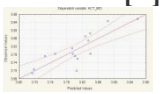


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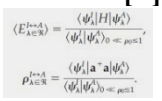
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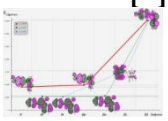
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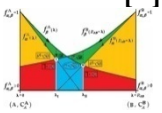
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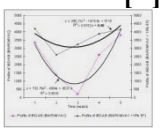
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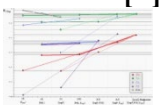
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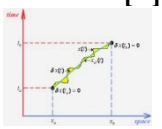


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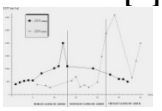


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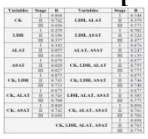
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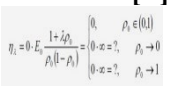
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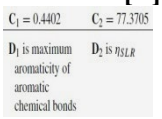
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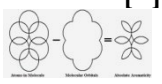
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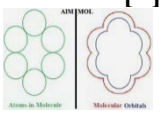
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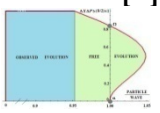


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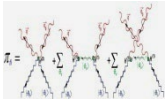


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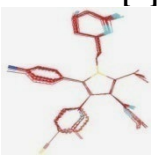
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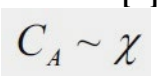
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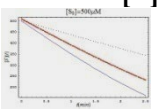
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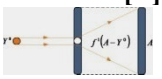
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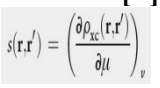
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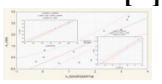


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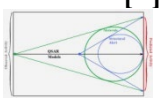


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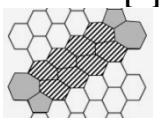
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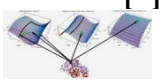
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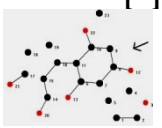
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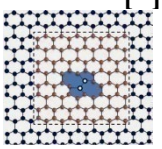
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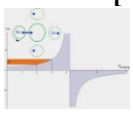


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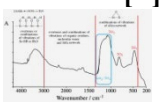


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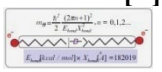
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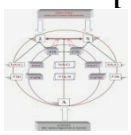
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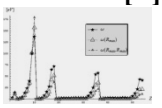
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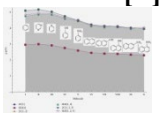
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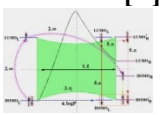
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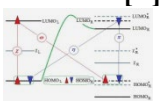


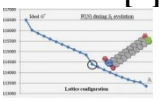
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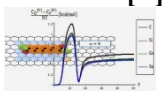
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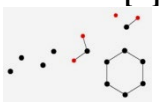
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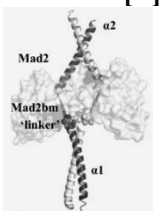
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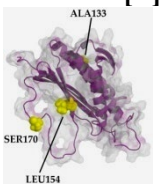
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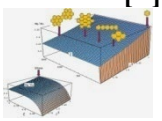
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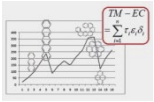
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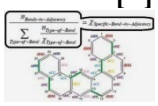


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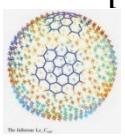


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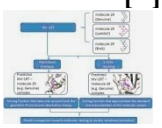
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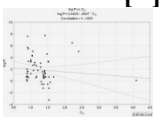
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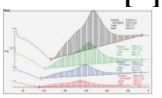
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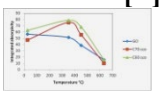
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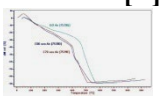


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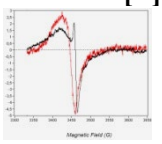


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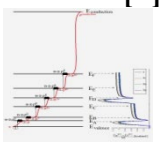
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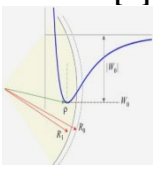
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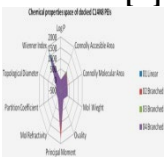
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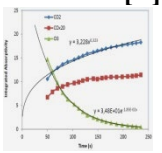
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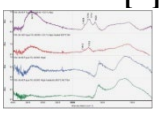


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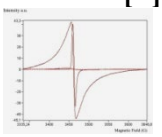


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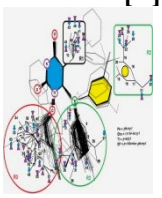
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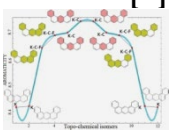
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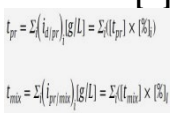
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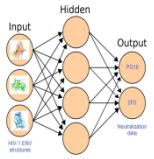
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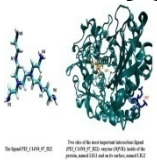


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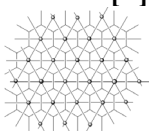


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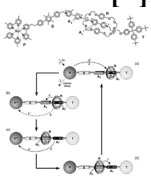
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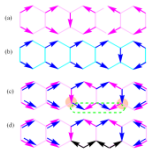
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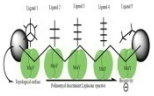
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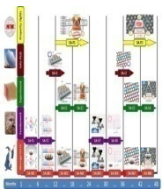
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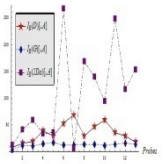
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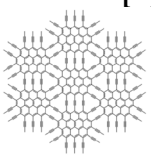
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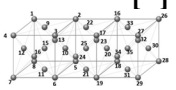
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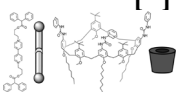
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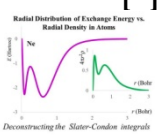
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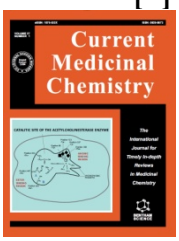
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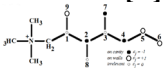
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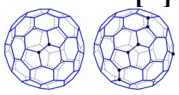
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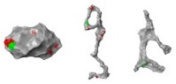
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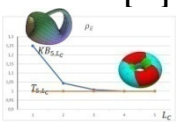
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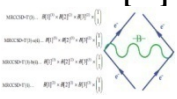
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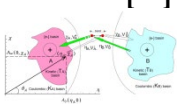


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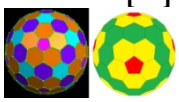


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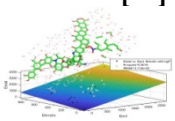
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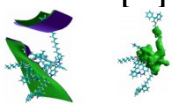
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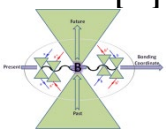
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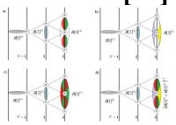
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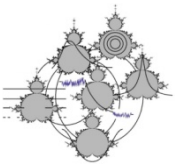
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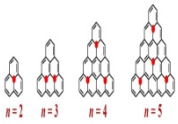
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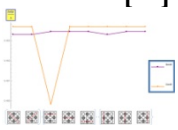
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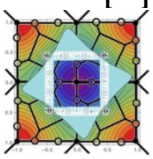
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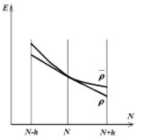
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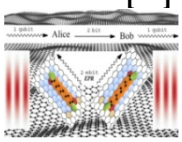
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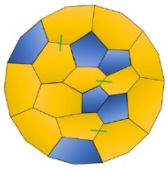
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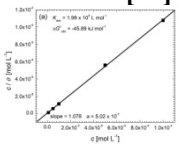
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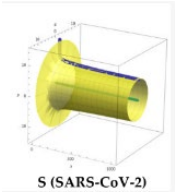
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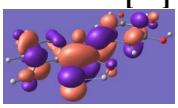
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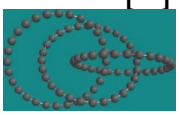
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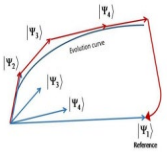
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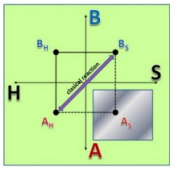
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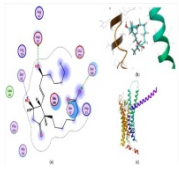
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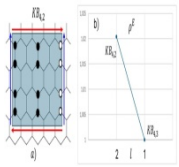
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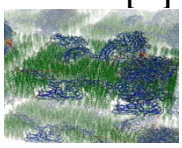
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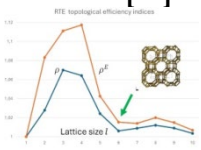
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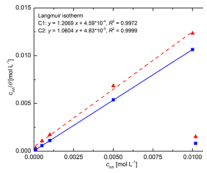
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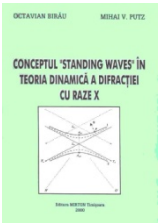
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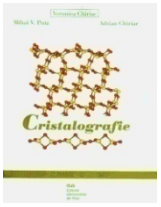
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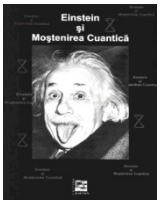
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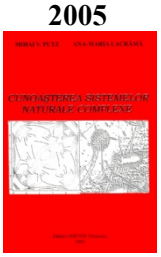
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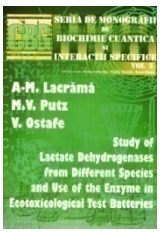


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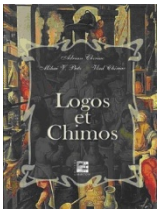
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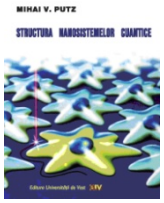
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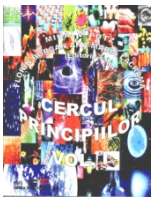
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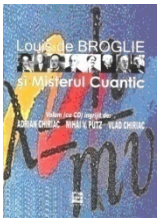
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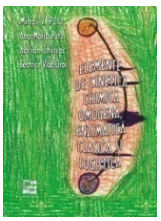
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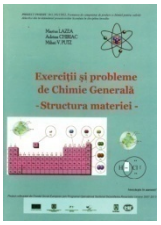
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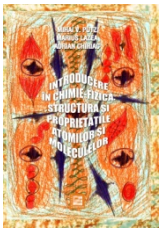
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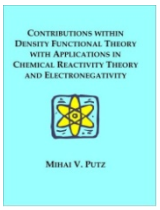
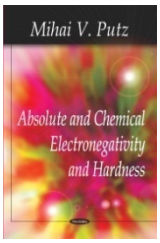
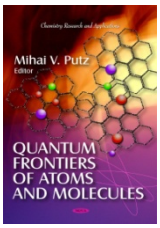
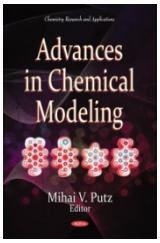
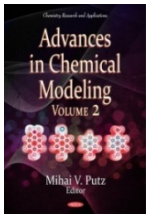
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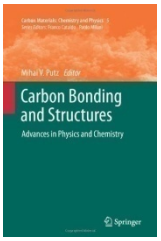
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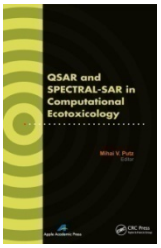
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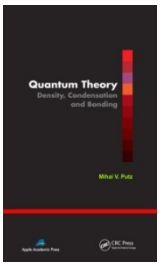
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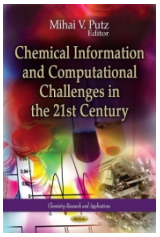
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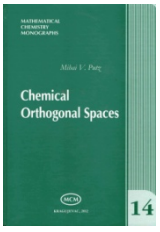
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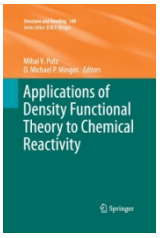
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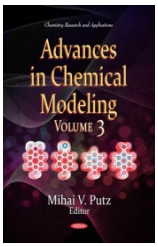
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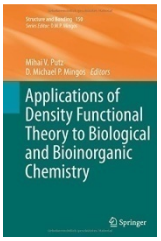
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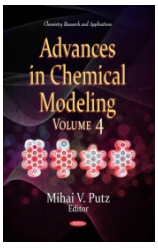
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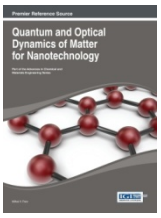
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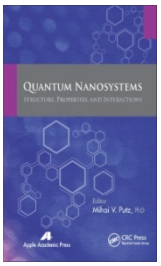
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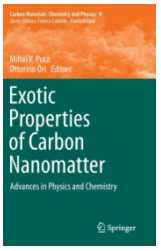
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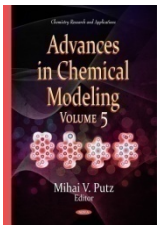


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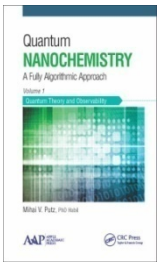


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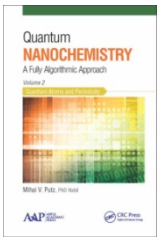
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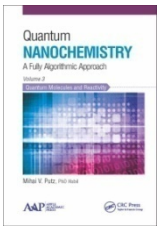
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Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
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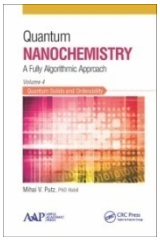
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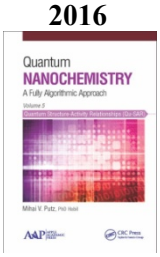
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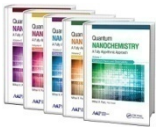


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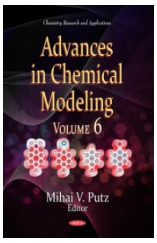
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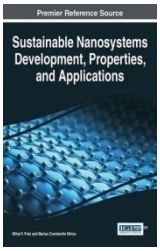
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QUANTUM NANOCHEMISTRY. A Fully Integrated Approach
(5 volumes package):
Vol I. QUANTUM THEORY AND OBSERVABILITY
Vol II. QUANTUM ATOMS AND PERIODICITY
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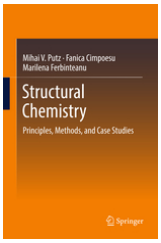
ADVANCES IN CHEMICAL MODELING. VOLUME 6
NOVA Science Publishers, Inc., New York, USA
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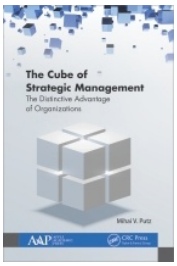
SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS
IGI Global, Hershey Pasadena, USA
pp. 794+index; DOI: 10.4018/978-1-5225-0492-4; ISBN13: 9781522504924;
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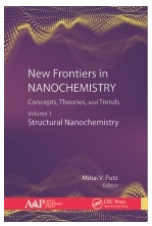
STRUCTURAL CHEMISTRY : PRINCIPLES, METHODS, AND CASE STUDIES ON THE MOLECULAR AND NANOSCALE
Springer Verlag, Dordrecht, NL,
E-Book ISBN: 978-3-319-55875-2; Hard-Book ISBN: 978-3-319-55873-8;
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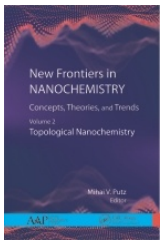


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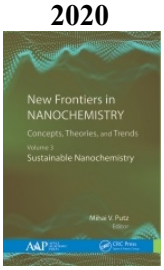
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pp. 504+index;
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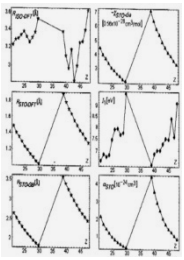
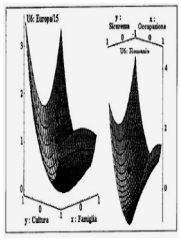
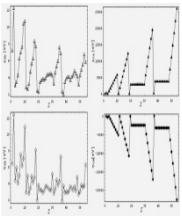
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VOLUME 2: TOPOLOGICAL NANOCHEMISTRY
VOLUME 3: SUSTAINABLE NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 1479+index;
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♣URL: http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-3-volume-set-volume-1-structural-nanochemistrybrvolume-2-topological-nanochemistrybrvolume-3-sustainable-nanochemistry/9781771887809



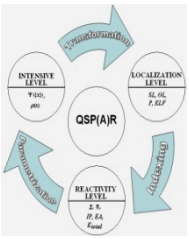
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THE CODE OF STRATEGIC MANAGEMENT. PATHS TO QUANTUM CLUSTERs;
Hard ISBN: 9781774917725; E-Book ISBN: 978-1-77491-773-2
Pages: Est. 302pp w/index; Binding Type: Hardback / eBook
Notes: 26 color and 127 b/w illustrations;
♣URL: https://appleacademicpress.com/the-code-of-strategic-management-paths-to-quantum-clusters/9781774917725



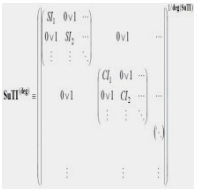
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50.	**PUTZ M.V.** Can Quantum-Mechanical Description of Chemical Bond Be Considered Complete? în "*QUANTUM CHEMISTRY RESEARCH TRENDS*" Mikas P. Kaisas (Ed.) Nova Science Publishers Inc., New York, USA ISBN-10: 1-60021-620-X; ISBN-13: 978-160021-620-6; Expert Commentary, pp. 3-5. ♣URL: http://www.novapublishers.com/catalog/product_info.php?products_id=5570	**2007** *"the quantum scenario based on electronegativity and hardness indices and principles stands as a natural first step in developing the quantum chemical space of reactivity"*

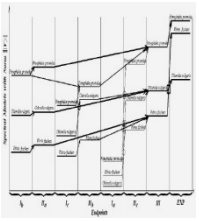
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în "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*"
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ISBN: 978-81-7895-306-9; Chapter 1, pp. 1-43
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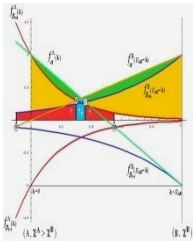
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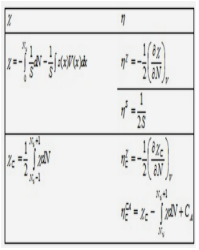
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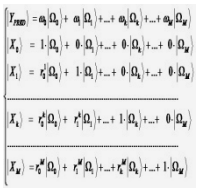
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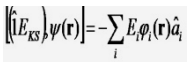


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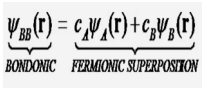
Timisoara Spectral – Structure Activity Relationship (Spectral-SAR) Algorithm: From Statistical and Algebraic Fundamentals to Quantum Consequences
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ISBN: 978-1-61668-158-6
Chapter 21, pp. 539-580
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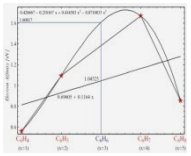
Conceptual Density Functional Theory: from Inhomogeneous Electronic Gas to Bose-Einstein Condensates
în
"*CHEMICAL INFORMATION AND COMPUTATIONAL CHALLENGES IN 21ST CENTURY. A Celebration of 2011 International Year of Chemistry*"
Mihai V. Putz (Ed.)
Series„Chemistry Research and Applications” &
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NOVA Science Publishers, Inc., New York, USA
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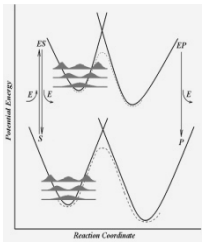
Hidden Side of Chemical Bond: The Bosonic Condensate
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NOVA Science Publishers, Inc., New York, USA, ISBN: 978-1-61324-018-2, Chapter 8,pp. 261-298.
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Mihai V. Putz (Ed.)
Springer Verlag, Dordrecht, NL,
ISBN: 978-94-007-1732-9;
Series „Carbon Materials: Chemistry and Physics”,
Volume 5
Series ISSN: 1875-0745
Chapter 1, pp. 1-32; DOI 10.1007/978-94-007-1733-6_1
♣URL: http://www.springer.com/chemistry/physical+chemistry/book/978-94-007-1732-9

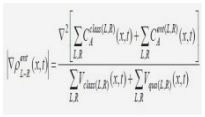
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Logistic versus W-Lambert Information in Modelling Enzyme Kinetics
în
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E.A. Castro, A. K. Haghi (Editors)
IGI Global(formerly Idea Group Inc.), Hershey, PA 17033, USA
ISBN 978-1-60960-860-6 (hardcover)
ISBN 978-1-60960-861-3 (ebook)
ISBN 978-1-60960-862-0 (print & perpetual access)
DOI: 10.4018/978-1-60960-860-6.ch007
Chapter 7, pp. 168-188
♣URL: http://www.igi-global.com/bookstore/chapter.aspx?titleid=56454
republicată (de aceeași editură) ca

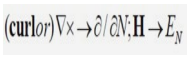
PUTZ M.V., PUTZ A.M. **2013**
Logistic vs. W-Lambert Information in Quantum Modeling of Enzyme Kinetics
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ISBN13: 9781466640108; ISBN10: 1466640103; EISBN13: 9781466640115
DOI: 10.4018/978-1-4666-4010-8.ch004
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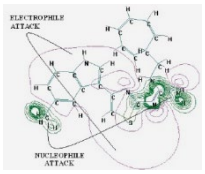
Levels of a Unified Theory of Chemical Interaction
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"*ADVANCES IN CHEMICAL MODELING*",
Mihai V. Putz (Ed.)
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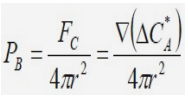
Chemical Reactivity and Electromagnetic Field
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Mihai V. Putz (Ed.)
NOVA Science Publishers Inc., New York, USA
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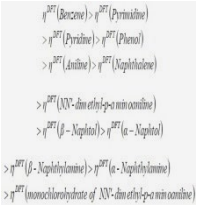
Turning SPECTRAL-SAR into 3D-QSAR Analysis. Application on H^+K^+-ATPase Inhibitory Activity
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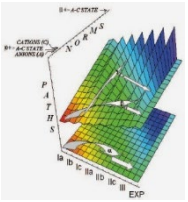
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On Chemical Hardness Assessment of Aromaticity for Some Organic Compound
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"*ADVANCES IN CHEMICAL MODELING. VOLUME 2*"
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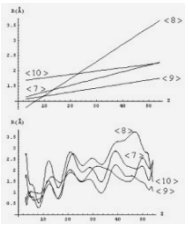


Spectral-SAR Ecotoxicology of Ionic Liquids-Acetylcholine Interaction on *E. Electricus* Species
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♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=36712

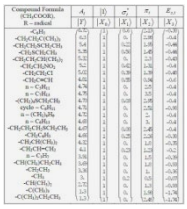
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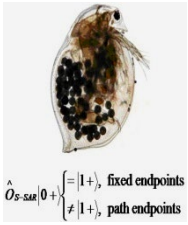


Nanoroots of Quantum Chemistry: Atomic Radii, Periodic Behavior, and Bondons
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DOI: 10.4018/978-1-4666-1607-3.ch004
ISBN13: 9781466616073, ISBN10: 1466616075, EISBN13: 9781466616080
Chapter 4, pp. 103-143
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republicată (de aceeaşi editură) ca

PUTZ M.V. **2014**
Nanoroots of Quantum Chemistry: Atomic Radii, Periodic Behavior, and Bondons
în "*NANOTECHNOLOGY: CONCEPTS, METHODOLOGIES, TOOLS, AND APPLICATIONS (3 VOLUMES)*"
Information Resources Management Association (USA)
IGI Global(formerly Idea Group Inc.), Hershey, PA 17033, USA
DOI: 10.4018/978-1-4666-5125-8.ch005
ISBN13: 9781466651258, ISBN10: 1466651253, EISBN13: 9781466651265
Chapter 5, pp. 123-162
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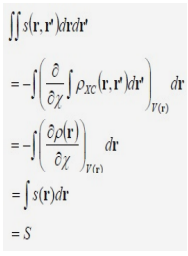
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ISBN: 9781926895130
Chapter 2, pp.29-38
URL:http://www.appleacademicpress.com/title.php?id=50

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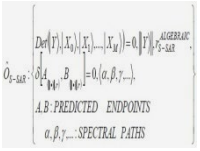
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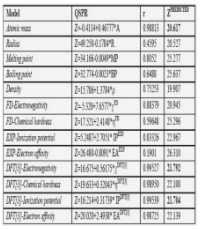
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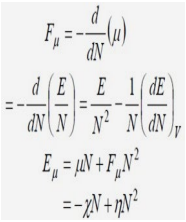
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Mihai V. Putz (Ed.)
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ISBN: 978-1-62257-110-9, Chapter 32, pp. 449-464
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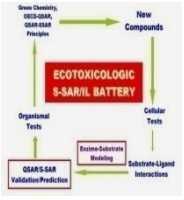
73. **PUTZ M.V.**, IONAȘCU C., CHIRIAC, A. **2012**
Testing Elemental Periodicity by QSPR
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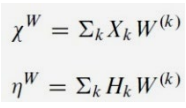
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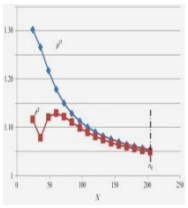
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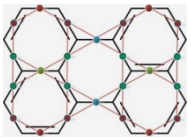
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ISBN: 978-94-007-6412-5
DOI: 10.1007/978-94-007-6413-2_4, Chapter 4, pp. 105-136
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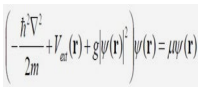
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ISBN: 978-94-007-6412-5,
DOI: 10.1007/978-94-007-6413-2_7, Chapter 7, pp. 229-244
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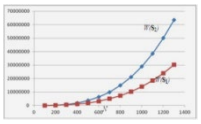
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ISBN: 978-94-007-6412-5
DOI: 10.1007/978-94-007-6413-2_9
Chapter 9, pp. 265-286
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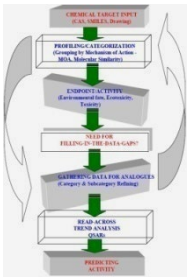
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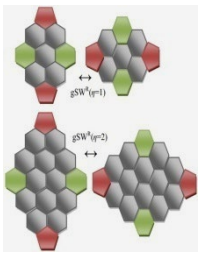
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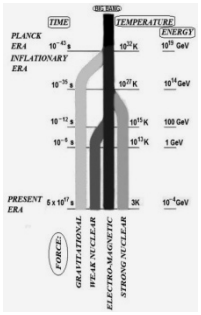
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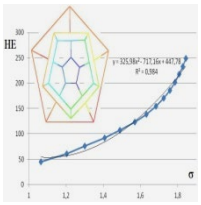
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Mihai V. Putz (Ed.)
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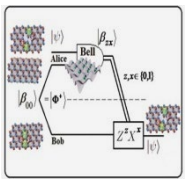
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Chapter 6, DOI: 10.1007/978-94-017-9567-8_6;pp. 131-152
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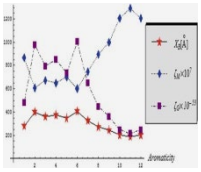


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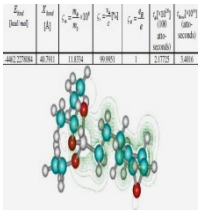
Bondonic Chemistry: Physical Origins and Entanglement Prospects
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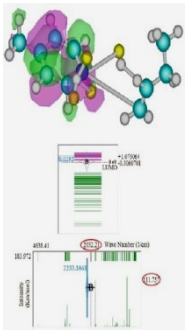
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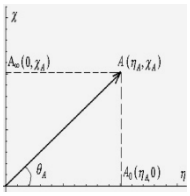
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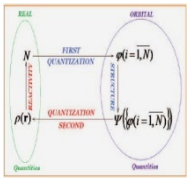
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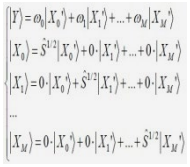
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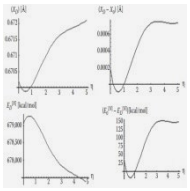
Bonding in Orthogonal Space of a Chemical Structure: From in Cerebro to in Silico
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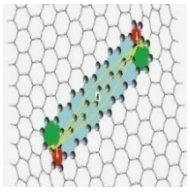
Spectral-Diagonal Approach of Structure-Property (Activity) Relationships: SD-QSP(A)R. The General Formalism
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Mihai V. Putz (Ed.)
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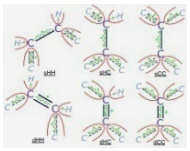
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VOL. 3. ELECTRICAL AND OPTICAL PROPERTIES
Mahmood Aliofkhazraei, Nasar Ali, William I. Milne, Cengiz S. Ozkan, Stanislaw Mitura, Juana L. Gervasoni (Eds.)
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Bondonic Chemistry: Spontaneous Symmetry Breaking of the Topo-Reactivity on Graphene
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Volume 9 of the series Carbon Materials: Chemistry and Physics*:*
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Ali Reza Ashrafi; Mircea V. Diudea (Eds.)
Springer Verlag, Dordrecht, NL
ISBN (Hardcover): 978-3-319-31582-9; eBook ISBN: 978-3-319-31584-3
Chapter 20; DOI: 10.1007/978-3-319-31584-3_20; pp. 345-389
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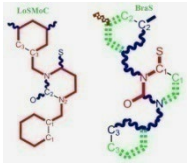
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Chapter 1; pp. 3-38;
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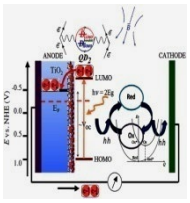
Anti-Bondonic Effects on the Topo-Reactivity of PAHs
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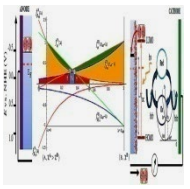
Pyrimidine Derivatives with Biological Activity in Anti-HIV Therapy. The Spectral-Diagonal-SAR Approach
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ISBN: 978-1-63485-030-8
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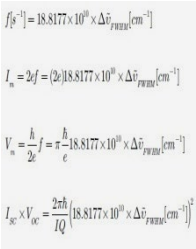
Quantum Dots Searching for Bondots: Towards Sustainable Sensitized Solar Cells
în
SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS
Mihai V. Putz, Marius Constantin Mirica (Eds.)
IGI Global, Hershey Pasadena, USA
Chapter 9, DOI: 10.4018/978-1-5225-0492-4.ch009; pp. 261-327;
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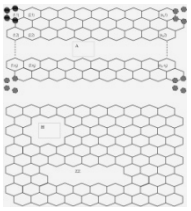


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Mihai V. Putz, Marius Constantin Mirica (Eds.)
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Chapter 10, DOI: 10.4018/978-1-5225-0492-4.ch010, pp. 328-411;
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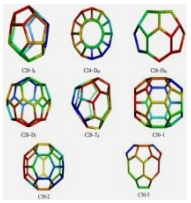
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Sustainable Design of Photovoltaics: Devices and Quantum Information
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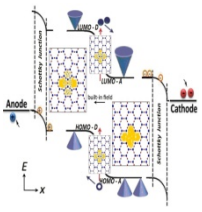
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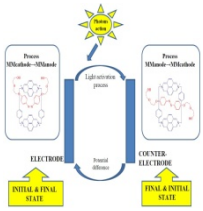
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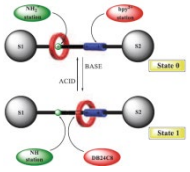
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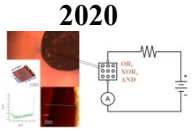


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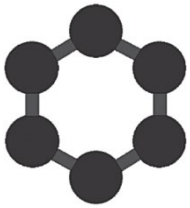
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ISBN: 978-1-771887-77-9
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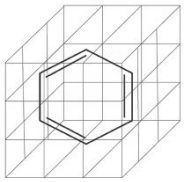
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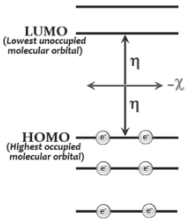
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$$M_B = \frac{\hbar^2}{2E_{bond}X_{bond}^2}$$

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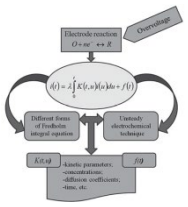
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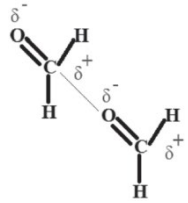
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$$\eta^{MSECH1}(r) = \left\{\operatorname{sech}\left[\sqrt{2}\frac{g(r)}{h(r)}\right]\right\}^{3/2}$$

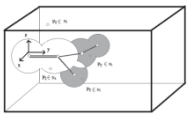
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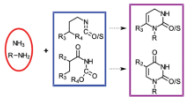
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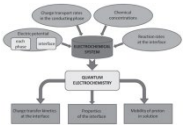
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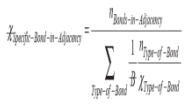


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ISBN: 978-1-771887-78-6
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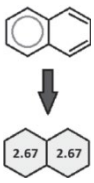
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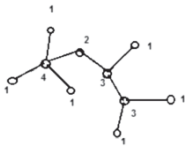
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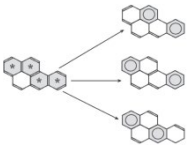
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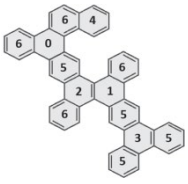
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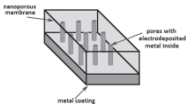
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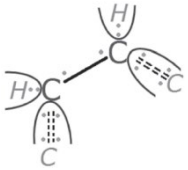
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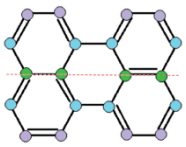
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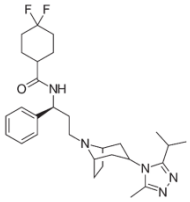


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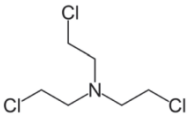


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Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA (**2020**)
pp. 504+index;
ISBN: 978-1-771887-79-3
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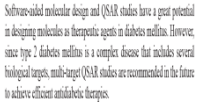
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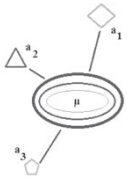
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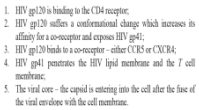
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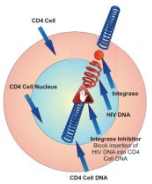
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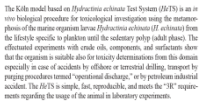
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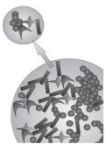
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$$(I)\ (Me_2Li)Le_4 \leftrightarrow (Me_2Li)^{4+} + 4Le^-$$
$$(Me_2Li)^{4+} \rightarrow 2Me^{2+} + Li^0$$

136. Ch. 16. Köln-Model as Toxicologically Procedure for Oils and Derivatives
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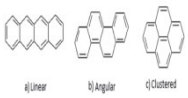
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$$A_i = \alpha - \beta MSD_i$$
$$MSD_i = \sum_{j=1}^{m} d_j \left| w_{i,j} x_{i,j} - v_j \right|$$

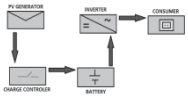
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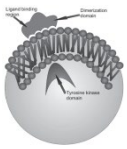
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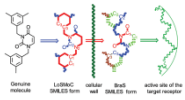
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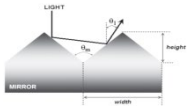
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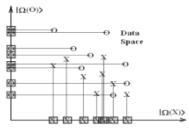
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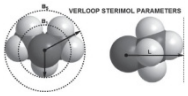
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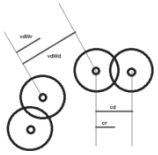
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$$\log\left(\frac{k_s}{k_{CH_3}}\right) = \delta E_s$$

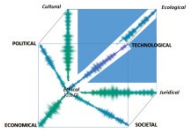
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149. **PUTZ M.V.** **2022**
THE QUANTUM ETHICS DRIVING NANOSCIENCE CHALLENGES: A MANIFOLD SAPIENS 3.0 PERSPECTIVE.
In: *Writing As Performance: Accounts Of Autoethnography*, Ed. Georgina Oana Gabor, Cambridge Scholars Publishing: Newcastle upon Tyne, NE6 2PA, UK, 2022
ISBN: 1-5275-8596-4
ISBN13: 978-1-5275-8596-6
Pages: 59-88
♣URL: https://www.cambridgescholars.com/product/978-1-5275-8596-6/



150. **PUTZ, M.V.**, PETRISOR, I. **2024**
Quantum Clustering Management: PESTEJEC Goes Nanotech.
In: *Management, Innovation and Entrepreneurship in Challenging Global Times. Lecture Notes in Management and Industrial Engineering.* Prostean, G.I., Lavios, J.J., Brancu, L., Şahin, F. (eds) Springer, Cham.
ISBN Print: 978-3-031-47163-6
ISBN Online: 978-3-031-47164-3
Pages: 41-56
♣URL: https://doi.org/10.1007/978-3-031-47164-3_4

