M I H A I V. P U T Z

Prof. univ. Dr., Dr.-Habil , &CS-1 – în Chimie

Dipl. & Studii Aprofundate – în Fizică

Dr. Mgmt. & MBA – în Management

DEPARTAMENTUL BIOLOGIE - CHIMIE

Laboratorul de Chimie-Fizică Structurală și Computațională pentru Nanoștiințe și QSAR

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Timişoara **Ianuarie 2023**

LISTA DE LUCRĂRI

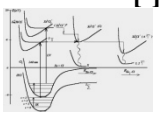
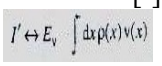
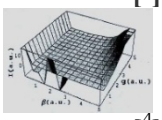
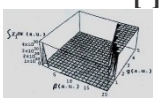
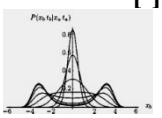
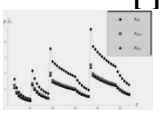
SYNOPSIS:

(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** **24Septembrie** **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] 
4.	**PUTZ M.V.**, CHIRIAC A., MRACEC M. Foundations for a Theory of the Chemical Field. III. The Integrated Electronegativity *Revue Roumaine de Chimie* 47(1-2) (**2002**) 201-206; dedicated to the memory of Professor I.G. Murgulescu	[4] 
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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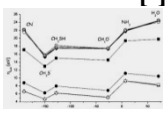

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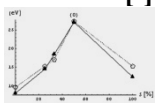

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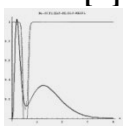

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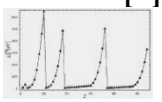

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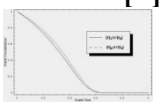

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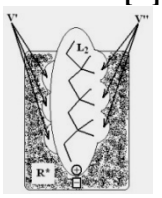

14. DUDA-SEIMAN C., DUDA-SEIMAN D., **PUTZ M.V. (*)**, CIUBOTARIU D. [14]
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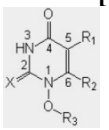

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15. **PUTZ M.V.**, LACRĂMĂ A.-M. [15]
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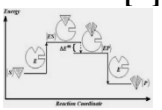

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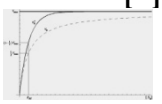

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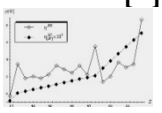

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Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology
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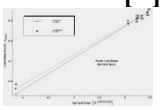

19. LACRĂMĂ A.-M., **PUTZ M.V. (*)**, OSTAFE V. [19]
A Spectral-SAR Model for the Anionic-Cationic Interaction in Ionic Liquids: Application to *Vibrio fischeri* Ecotoxicity
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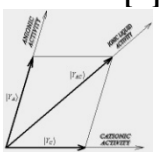

20. **PUTZ M.V.**, PUTZ (LACRĂMĂ) A.-M. [20]
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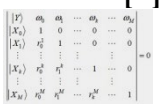

21. **PUTZ M.V.** [21]
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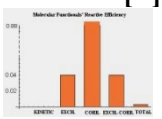

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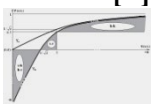

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QSAR Study on The Anaesthetic Activity of Some Barbiturates and Thiobarbiturates
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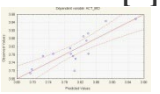

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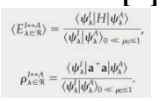

25. **PUTZ M.V.**, PUTZ A.M., LAZEA M., IENCIU L., CHIRIAC A. [25]
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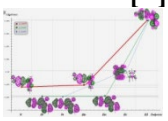

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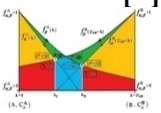

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Effect of the Polysaccharide Extract from the Edible Mushroom *Pleurotus Ostreatus* against Infectious Bursal Disease Virus
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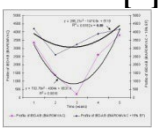

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International Journal of Molecular Sciences
10(10) (**2009**) 4474-4497; DOI: 10.3390/ijms10104474
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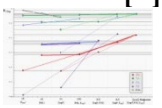

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Path Integrals for Electronic Densities, Reactivity Indices, and Localization Functions in Quantum Systems
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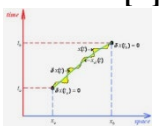

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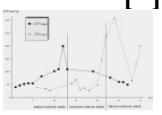

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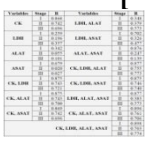

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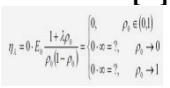

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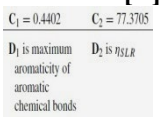

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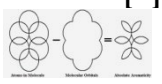

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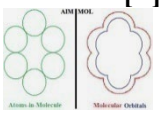

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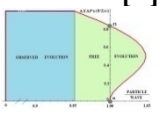
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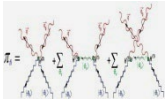
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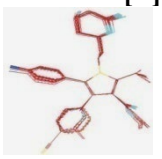
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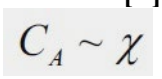
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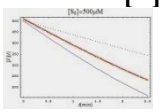
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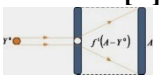
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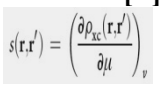
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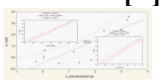

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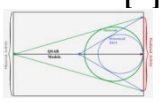

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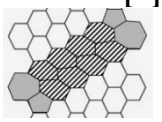

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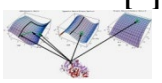

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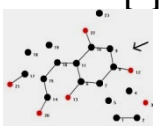

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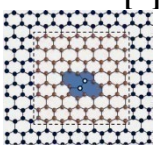

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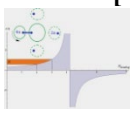

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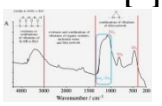

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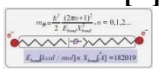

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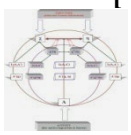

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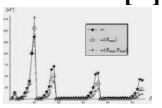

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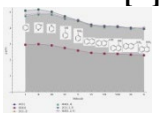

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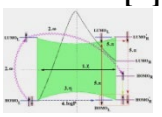

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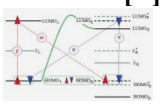

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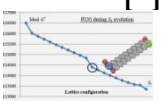

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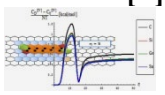

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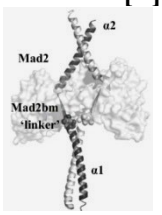

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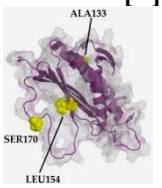

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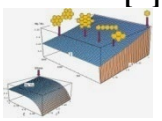

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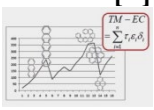

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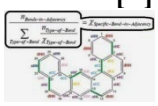

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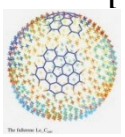

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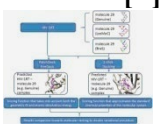

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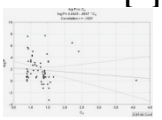

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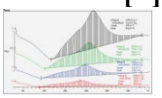

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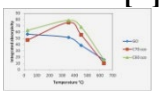

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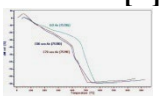

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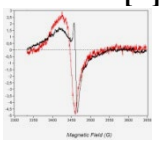

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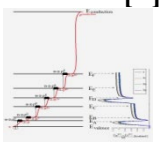

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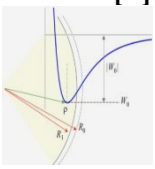

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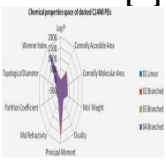

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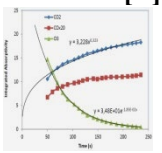

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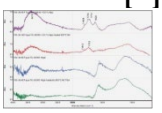

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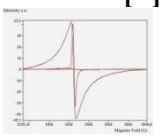

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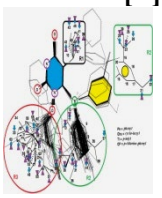

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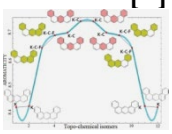

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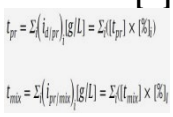

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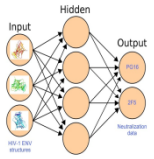

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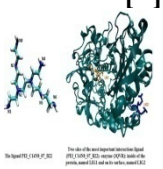

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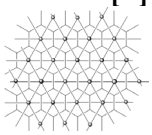

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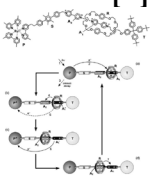

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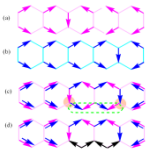

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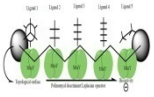

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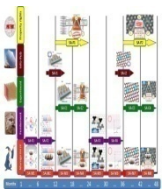

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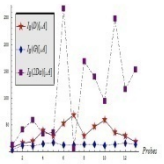

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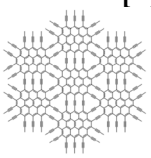

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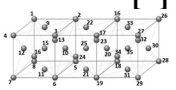

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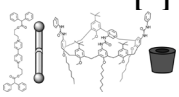

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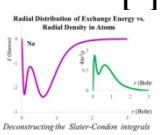

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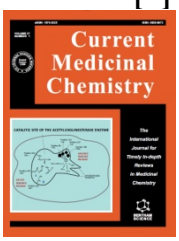

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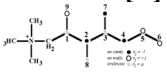

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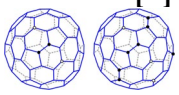

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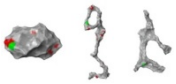

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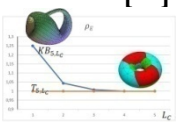

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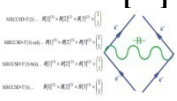

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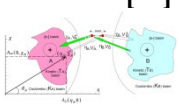

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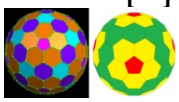

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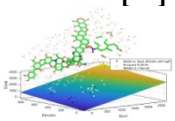

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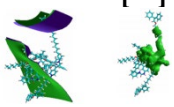

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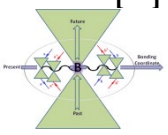

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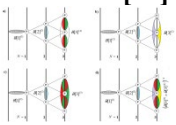

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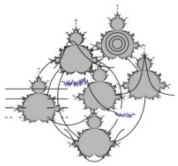

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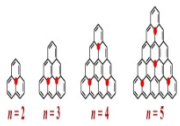

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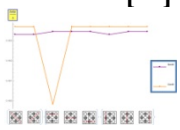

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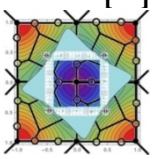

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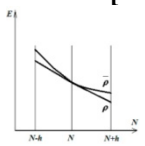

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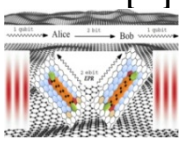

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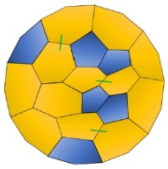

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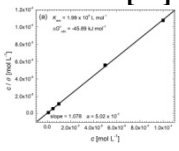

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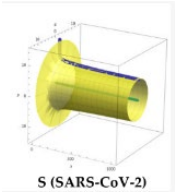

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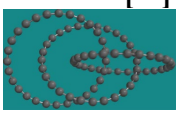

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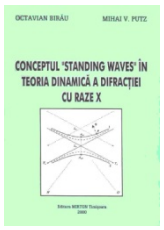

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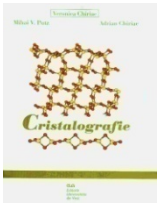

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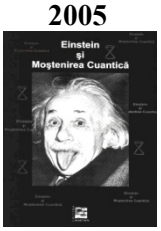

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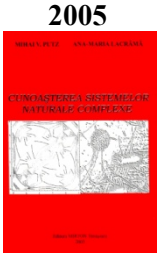

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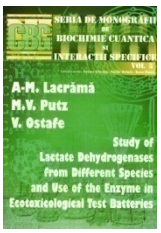

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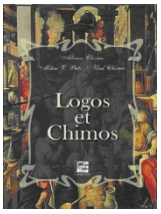

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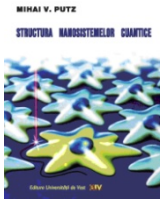

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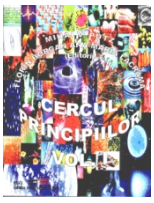

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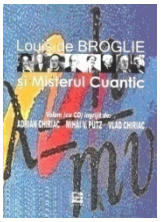

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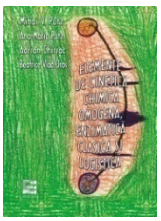

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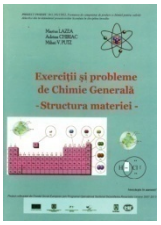

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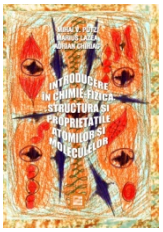

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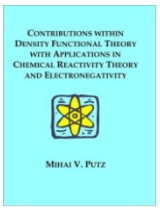
16.	**PUTZ M.V.** *CONTRIBUTIONS WITHIN DENSITY FUNCTIONAL THEORY WITH APPLICATIONS IN CHEMICAL REACTIVITY THEORY AND ELECTRONEGATIVITY* Dissertation.com, Parkland, Florida, USA pp. 180; ISBN: 1-58112-184-9; ♣URL: www.dissertation.com/book.php?method=ISBN&book=1581121849.	**2003** 
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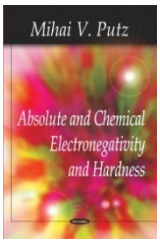
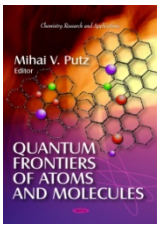
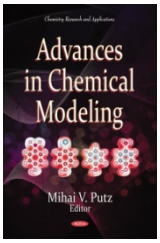
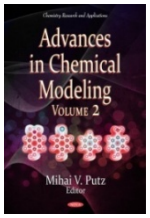
18.	**PUTZ M.V.** *ABSOLUTE AND CHEMICAL ELECTRONEGATIVITY AND HARDNESS* Nova Publishers Inc., New York, USA pp. 95; ISBN (e-book): 978-1-60741-207-6; ISBN (printed edition): 978-1-60456-937-7. ♣URL:https://www.novapublishers.com/catalog/product_info.php?products_id=7678 ♣URL-Romania:http://www.books-express.ro/book/9781604569377/Absolute-Chemical-Electronegativity-Hardness.html	**2008** 
19.	**PUTZ M.V.** (Editor) *QUANTUM FRONTIERS OF ATOMS AND MOLECULES*" NOVA Science Publishers, Inc., New York, USA pp. 673; ISBN: 978-1-61668-158-6 ♣URL:https://www.novapublishers.com/catalog/product_info.php?products_id=12687	**2011** 
20.	**PUTZ M.V.** (Editor) *ADVANCES IN CHEMICAL MODELING* NOVA Science Publishers, Inc., New York, USA pp. 480; ISBN: 978-1-61209-028-3 ♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=20389 *Consemnată ca "*research summaries *în volumul: "CHEMISTRY RESEARCHER BIOGRAPHICAL SKETCHES AND RESEARCH SUMMARIES*" (**2012**) Elnur S. Hüseynov and Vusal Babayev (Eds.) NOVA Science Publishers, Inc., New York, USA; ISBN: 978-1-62100-771-5; Chapter 2/Part 2 - Research Summaries on Chemistry, pp. 349-350; ♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=29583	**2011** 
21.	**PUTZ M.V.** (Editor) *ADVANCES IN CHEMICAL MODELING. VOLUME 2* NOVA Science Publishers, Inc., New York, USA pp. 468; ISBN: 978-1-61209-669-8 ♣URL:https://www.novapublishers.com/catalog/product_info.php?products_id=21916	**2011** 

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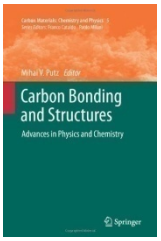

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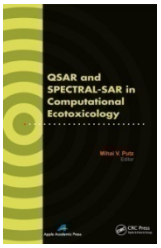

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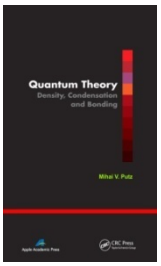

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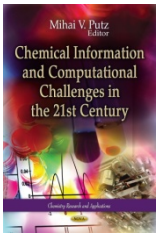

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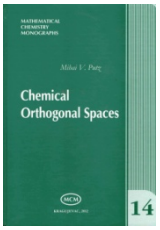

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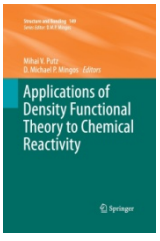

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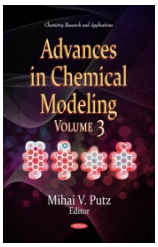

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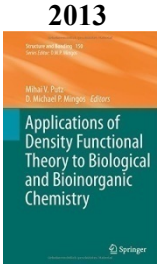

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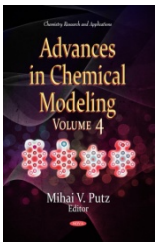

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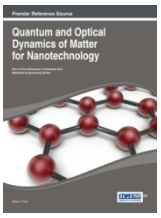

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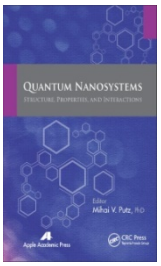
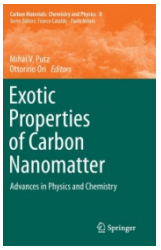
pp. 504;
ISBN: 978-1-926895-90-1
♣URL:http://www.appleacademicpress.com/title.php?id=9781926895901

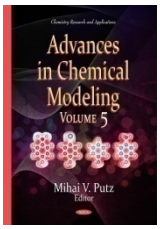


33. **PUTZ M.V.**, ORI O. (Editori) **2015**
EXOTIC PROPERTIES OF CARBON NANOMATTER: ADVANCES IN PHYSICS AND CHEMISTRY
Springer Verlag, Dordrecht, NL,
pp. 398;
ISBN: 978-94-017-9566-1;
Book included as Vol.8 in the SERIES „CARBON MATERIALS: CHEMISTRY AND PHYSICS" (*Series Editors*: Franco Cataldo, Paolo Milani), Series ISSN: 1875-0745

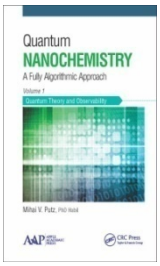


♣URL:http://www.springer.com/chemistry/theoretical+and+computational+chemistry/book/978-94-017-9566-1

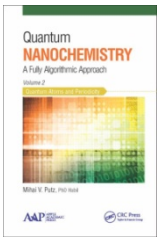
34. **PUTZ M.V.** (Editor) **2015**
ADVANCES IN CHEMICAL MODELING. VOLUME 5
NOVA Science Publishers, Inc., New York, USA
pp. 523;
ISBN: 978-1-63482-310-4
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=53938



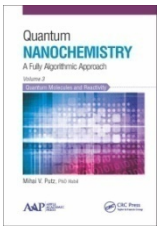
35. **PUTZ M.V.** **2016**
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach:
Vol I. QUANTUM THEORY AND OBSERVABILITY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 651+index;
ISBN: 978-1-771881-33-3
♣URL:http://www.appleacademicpress.com/title.php?id=9781771881333



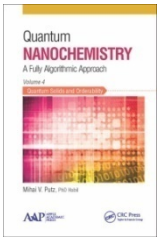
36. **PUTZ M.V.** **2016**
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach:
Vol II. QUANTUM ATOMS AND PERIODICITY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 549+index;
ISBN: 978-1-771881-34-0
♣URL: http://www.appleacademicpress.com/title.php?id=9781771881340



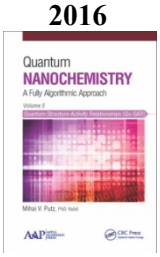
37. **PUTZ M.V.** **2016**
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach:
Vol III. QUANTUM MOLECULES AND REACTIVITY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 579+index;
ISBN: 978-1-771881-35-7
♣URL: http://www.appleacademicpress.com/title.php?id=9781771881357



38. **PUTZ M.V.** **2016**
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach:
Vol IV. QUANTUM SOLIDS AND ORDERABILITY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 686+index;
ISBN: 978-1-771881-36-4
♣URL: http://www.appleacademicpress.com/title.php?id=9781771881364

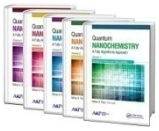


39. **PUTZ M.V.** **2016**
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach:
Vol V. QUANTUM STRUCTURE-ACTIVITY RELATIONSHIP (Qu-SAR)
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 622+index;
ISBN: 978-1-771881-37-1
♣URL: http://www.appleacademicpress.com/title.php?id=9781771881371



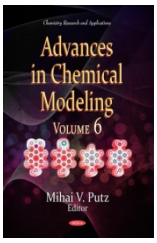
Volumele de la intrările 35-39 sunt reunite și în Setul Complet

2016



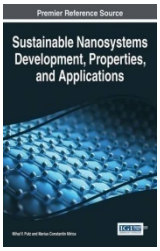
PUTZ M.V.
QUANTUM NANOCHEMISTRY. A Fully Integrated Approach
(5 volumes package):
Vol I. QUANTUM THEORY AND OBSERVABILITY
Vol II. QUANTUM ATOMS AND PERIODICITY
Vol III. QUANTUM MOLECULES AND REACTIVITY
Vol IV. QUANTUM SOLIDS AND ORDERABILITY
Vol V. QUANTUM STRUCTURE-ACTIVITY RELATIONSHIP (Qu-SAR)
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 3086+index;
ISBN: 978-1-771881-38-8
♣URL: http://www.appleacademicpress.com/title.php?id=9781771881388

40. **PUTZ M.V.** (Editor) **2016**



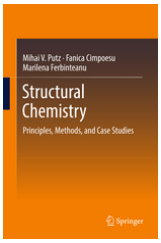
ADVANCES IN CHEMICAL MODELING. VOLUME 6
NOVA Science Publishers, Inc., New York, USA
pp. 640;
ISBN: 978-1-63485-030-8
♣URL:https://novapublishers.com/shop/advances-in-chemical-modeling-volume-6/

41. **PUTZ M.V.**, MIRICĂ M.C. (Editori) **2016**



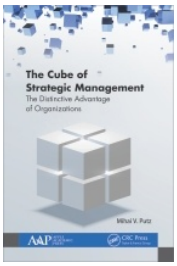
SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS
IGI Global, Hershey Pasadena, USA
pp. 794+index; DOI: 10.4018/978-1-5225-0492-4; ISBN13: 9781522504924;
ISBN10: 1522504923; EISBN13: 9781522504931
♣URL:http://www.igi-global.com/book/sustainable-nanosystems-development-properties-applications/147016

42. **PUTZ M.V.**, CIMPOEȘU F., FERBINȚEANU M. **2018**



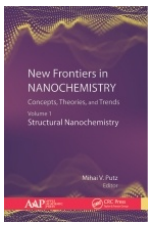
STRUCTURAL CHEMISTRY : PRINCIPLES, METHODS, AND CASE STUDIES ON THE MOLECULAR AND NANOSCALE
Springer Verlag, Dordrecht, NL,
E-Book ISBN: 978-3-319-55875-2; Hard-Book ISBN: 978-3-319-55873-8;
pp. ~ 800+index;
♣URL:http://www.springer.com/gp/book/9783319558738

43. **PUTZ M.V.** **2019**

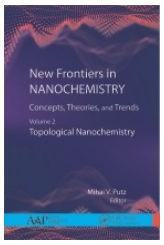


THE CUBE OF STRATEGIC MANAGEMENT. THE DISTINCTIVE ADVANTAGE OF ORGANIZATIONS
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 306+index;
ISBN: 978-1-771887-75-5
♣URL: http://www.appleacademicpress.com/the-cube-of-strategic-management-the-distinctive-advantage-of-organizations/9781771887755

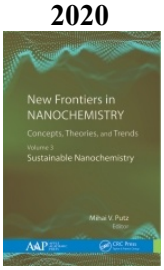
44. **PUTZ M.V.** (Editor) **2020**
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, VOLUME 1: STRUCTURAL NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 526+index;
ISBN: 978-1-771887-77-9
♣URL:http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779



45. **PUTZ M.V.** (Editor) **2020**
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, VOLUME 2: TOPOLOGICAL NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 606+index;
ISBN: 978-1-771887-78-6
♣URL: http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-2-topological-nanochemistry-/9781771887786



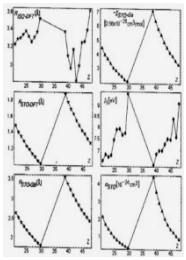
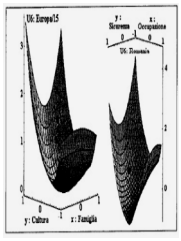
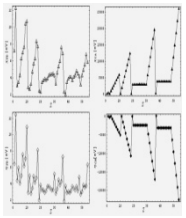
46. **PUTZ M.V.** (Editor) **2020**
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS,
VOLUME 3: SUSTAINABLE NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 504+index;
ISBN: 978-1-771887-79-3
♣URL: http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-3-sustainable-nanochemistry-/9781771887793



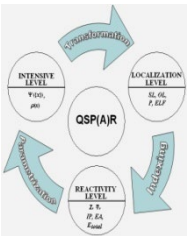
Volumele de la intrările 44-46 sunt reunite și în Setul Complet

PUTZ M.V. (Editor) **2020**
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS,
3-Volume Set:
VOLUME 1: STRUCTURAL NANOCHEMISTRY
VOLUME 2: TOPOLOGICAL NANOCHEMISTRY
VOLUME 3: SUSTAINABLE NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA
pp. 1479+index;
ISBN: 978-1-771887-80-9
♣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

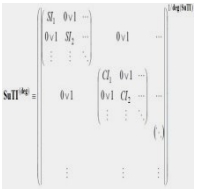
(v) CAPITOLE ÎN CĂRȚI

Nr.	Informatii Capitol de Carte	An Apariție
47.	BELCASTRO M., CHIODO S., KONDAKOVA O., LEOPOLDINI M., MARINO, T., MICHELINI M.C., **PUTZ M.V.**, SICILIA E., TOSCANO M., RUSSO, N. On the Use of Density Functional Theory in the Study of Metal-Ligand Interactions. Some Studied Casesîn "*METAL-LIGAND INTERACTIONS*" Russo, N., Salahub, D.R., Witko, M. (Eds.) NATO Science Series II. Mathematics, Physics and Chemistry – Vol. 116 Kluwer Academic Publishers, Dordrecht, Holland) ISBN: 1-4020-1495-3; pp. 1-20 ♣URL: http://www.springer.com/chemistry/inorganic/book/978-1-4020-1494-9	**2003** 
48.	**PUTZ M.V.** "Devianza, Minori e Teoria delle Catastrofi: un Approach Integrato e le Sue Applicazioni" în "*CATASTROFI ESISTENZIALI-ANATOMIA DEL DISAGIO GIOVANILE*" editată de Silvana Palazzo cu un o Prefață de Giovanni Latorre (Rectorul Universității din Calabria), Periferia Editori, Cosenza, Italy ISBN: 88-87080-59-3 pp. 57-85. ♣URL:http://www.edizioniperiferia.it/scheda_libro.php?id_libro=129 ♣URL: http://www.silvanapalazzo.it/	**2006** 
49.	**PUTZ M.V.** Unifying Absolute and Chemical Electronegativity and Hardness Density Functional Formulations through the Chemical Action Concept în "*PROGRESS IN QUANTUM CHEMISTRY RESEARCH*" Erik O. Hoffman (Ed.) Nova Science Publishers Inc., New York, USA ISBN-10: 1-60021-621-8, ISBN-13: 978-1-60021-621-3, Chapter 2, pp. 59-121. ♣URL: http://www.novapublishers.com/catalog/product_info.php?products_id=5571	**2007** 
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"*

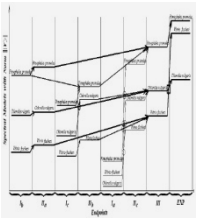
51. **PUTZ M.V.**, CHIRIAC A. **2008**
Quantum Perspectives on the Nature of the Chemical Bond
în "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*"
Mihai V. Putz (Ed.)
Transworld Research Network, Kerala, India
ISBN: 978-81-7895-306-9; Chapter 1, pp. 1-43
♣URL: http://www.trnres.com/putz.htm.



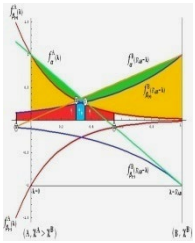
52. **PUTZ M.V.**, DUDA-SEIMAN D., MANCAŞ S., DUDA-SEIMAN C., LACRĂMĂ A.-M. **2008**
Quantum and Topological Impact on HMG-CoA Reductase Inhibitors
în
"*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*"
Mihai V. Putz (Ed.)
Transworld Research Network, Kerala, India
ISBN: 978-81-7895-306-9; Chapter 15, pp. 355-387
♣URL: http://www.trnres.com/putz.htm



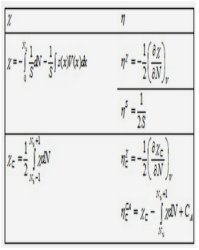
53. LACRĂMĂ A.-M., **PUTZ M.V.**, OSTAFE V. **2008**
Designing a Spectral Structure-Activity Ecotoxico-Logistical Battery
în
"*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*"
Mihai V. Putz (Ed.)
Transworld Research Network, Kerala, India
ISBN: 978-81-7895-306-9; Chapter 16, pp. 389-419
♣URL: http://www.trnres.com/putz.htm



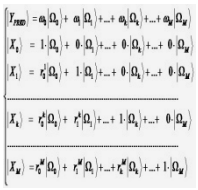
54. **PUTZ M.V.** **2011**
Fulfilling The Dirac Promises on Quantum Chemical Bond
în "*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*"
Mihai V. Putz (Ed.)
Series,, Chemistry Research And Applications"
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-61668-158-6; Chapter 1, pp. 1-20
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687



55. **PUTZ M.V.** **2011**
Quantum and Electrodynamic Versatility of Electronegativity and Chemical Hardness
în
"*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*"
Mihai V. Putz (Ed.)
Series,, Chemistry Research And Applications"
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-61668-158-6
Chapter 11, pp. 251-270
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687

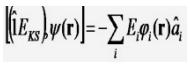


56. **PUTZ M.V.**, PUTZ A.M. **2011**



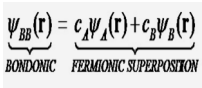
Timisoara Spectral – Structure Activity Relationship (Spectral-SAR) Algorithm: From Statistical and Algebraic Fundamentals to Quantum Consequences
în
"*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*"
Mihai V. Putz (Ed.)
Series„Chemistry Research And Applications”
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-61668-158-6
Chapter 21, pp. 539-580
♣URL:https://www.novapublishers.com/catalog/product_info.php?products_id=12687

57. **PUTZ M.V.** **2011**



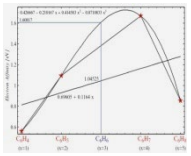
Conceptual Density Functional Theory: from Inhomogeneous Electronic Gas to Bose-Einstein Condensates
în
"*CHEMICAL INFORMATION AND COMPUTATIONAL CHALLENGES IN 21ST CENTURY. A Celebration of 2011 International Year of Chemistry*"
Mihai V. Putz (Ed.)
Series„Chemistry Research and Applications” &
Series „Chemical Engineering Methods and Technology”
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-61209-712-1
Chapter 1, pp. 1-60
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=22003

58. **PUTZ M.V.** **2011**



Hidden Side of Chemical Bond: The Bosonic Condensate
în
"*ADVANCES IN CHEMISTRY RESEARCH. VOLUME 10*"
James C. Taylor (Ed.)
Series„Advances in Chemistry Research”
NOVA Science Publishers, Inc., New York, USA, ISBN: 978-1-61324-018-2, Chapter 8,pp. 261-298.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=22671

59. **PUTZ M.V.** **2011**



Quantum Parabolic Effects of Electronegativity and Chemical Hardness on Carbon π-Systems
în
"*CARBON BONDING AND STRUCTURES: ADVANCES IN PHYSICS AND CHEMISTRY*"
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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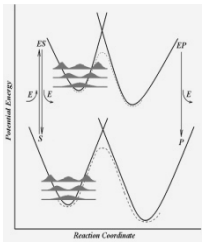

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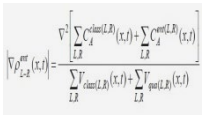

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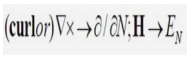

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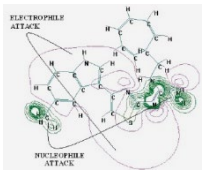

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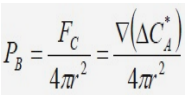

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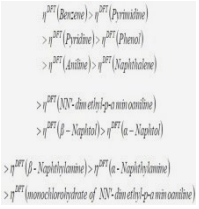

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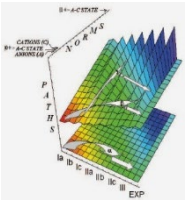

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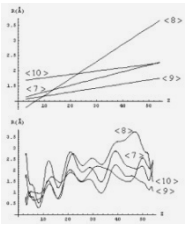

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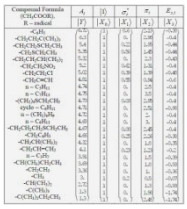

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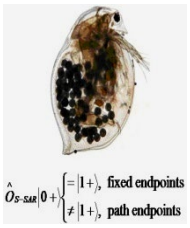

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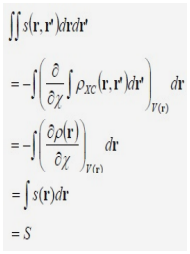

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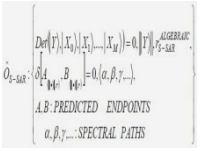

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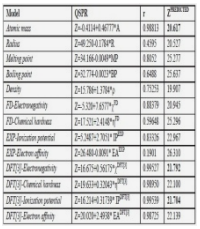

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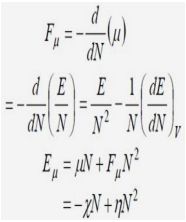

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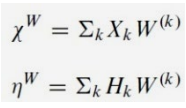

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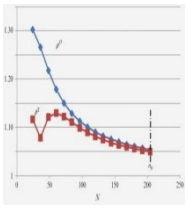

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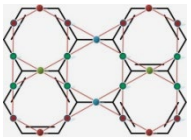

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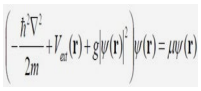

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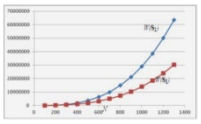

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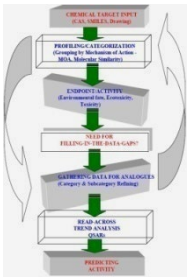

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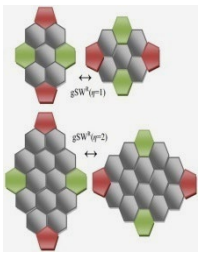

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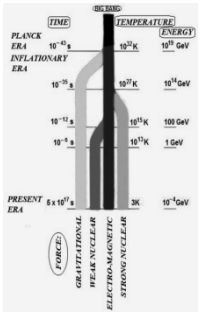

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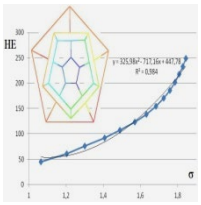

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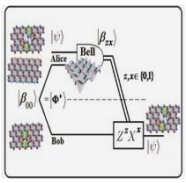

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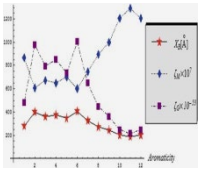

Bondonic Chemistry: Non-Classical Implications on Classical Carbon Systems
în
"*EXOTIC PROPERTIES OF CARBON NANOMATTER: ADVANCES IN PHYSICS AND CHEMISTRY*"
Mihai V. Putz, Ottorino Ori (Eds.)
Springer Verlag, Dordrecht, NL
ISBN: 978-94-017-9566-1
Chapter 11; DOI 10.1007/978-94-017-9567-8_11;pp. 261-320
♣URL: http://www.springer.com/chemistry/theoretical+and+computational+chemistry/book/978-94-017-9566-1

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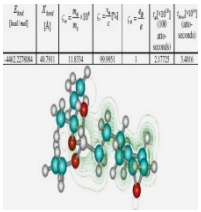

Bondonic Chemistry: Consecrating Silanes as Metallic Precursors for Silicenes Materials
în
"*EXOTIC PROPERTIES OF CARBON NANOMATTER: ADVANCES IN PHYSICS AND CHEMISTRY*"
Mihai V. Putz, Ottorino Ori (Eds.)
Springer Verlag, Dordrecht, NL
ISBN: 978-94-017-9566-1
Chapter 12; DOI 10.1007/978-94-017-9567-8_12;pp. 323-346
♣URL: http://www.springer.com/chemistry/theoretical+and+computational+chemistry/book/978-94-017-9566-1

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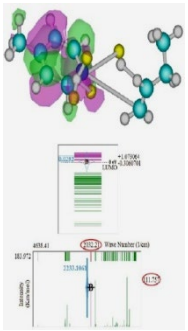

Bondonic Chemistry: Predicting Ionic Liquids' (IL) Bondons By Raman-IR Spectra
în
"*EXOTIC PROPERTIES OF CARBON NANOMATTER: ADVANCES IN PHYSICS AND CHEMISTRY*"
Mihai V. Putz, Ottorino Ori (Eds.)
Springer Verlag, Dordrecht, NL
ISBN: 978-94-017-9566-1
Chapter 13; DOI 10.1007/978-94-017-9567-8_13; pp. 347-382
♣URL: http://www.springer.com/chemistry/theoretical+and+computational+chemistry/book/978-94-017-9566-1

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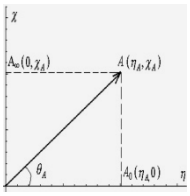

Chemical Orthogonal Spaces (COSs): From Structure to Reactivity to Biological Activity
În*ADVANCES IN CHEMICAL MODELING. VOLUME 5*
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-63482-310-4
Chapter 1; pp. 3-36;
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=53938

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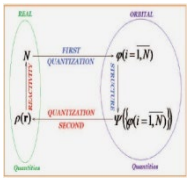
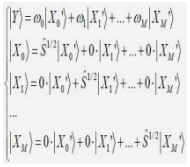


Bonding in Orthogonal Space of a Chemical Structure: From in Cerebro to in Silico
în *ADVANCES IN CHEMICAL MODELING. VOLUME 5*
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-63482-310-4
Chapter 2; pp. 37-62;
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=53938

92. **PUTZ M.V.** **2015**



Spectral-Diagonal Approach of Structure-Property (Activity) Relationships: SD-QSP(A)R. The General Formalism
în
ADVANCES IN CHEMICAL MODELING. VOLUME 5
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-63482-310-4
Chapter 26; pp. 403-413;
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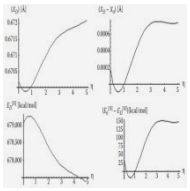
93. **PUTZ M.V.,** ORI O., DIUDEA M.V. **2016**



Bondonic Electronic Properties of 2D Graphenic Lattices with Structural Defects
în
GRAPHENE SCIENCE HANDBOOK.
VOL. 3. ELECTRICAL AND OPTICAL PROPERTIES
Mahmood Aliofkhazraei, Nasar Ali, William I. Milne, Cengiz S. Ozkan, Stanislaw Mitura, Juana L. Gervasoni (Eds.)
CRC Pres, Taylor & Francis Group, Boca Raton, Florida, USA
ISBN-13: 978-14-6659-131-8
Chapter 5; pp. 55-81
♣URL: https://www.crcpress.com/Graphene-Science-Handbook-Electrical-and-Optical-Properties/Aliofkhazraei-Ali-Milne-Ozkan-Mitura-Gervasoni/p/book/9781466591318

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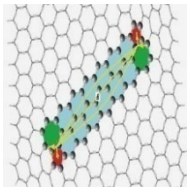
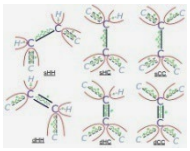


Bondonic Chemistry: Spontaneous Symmetry Breaking of the Topo-Reactivity on Graphene
în
Volume 9 of the series Carbon Materials: Chemistry and Physics*:*
DISTANCES, SYMMETRY AND TOPOLOGY IN CARBON NANOMATERIALS
Ali Reza Ashrafi; Mircea V. Diudea (Eds.)
Springer Verlag, Dordrecht, NL
ISBN (Hardcover): 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
♣URL: http://link.springer.com/chapter/10.1007%2F978-3-319-31584-3_20

95. **PUTZ M.V.**, TUDORAN M.A. **2016**



Bondonic Effects on the Topo-Reactivity of PAHs
în
ADVANCES IN CHEMICAL MODELING. VOLUME 6
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-63485-030-8
Chapter 1; pp. 3-38;
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96. **PUTZ M.V.**, TUDORAN M.A. **2016**

Anti-Bondonic Effects on the Topo-Reactivity of PAHs
în
ADVANCES IN CHEMICAL MODELING. VOLUME 6
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
ISBN: 978-1-63485-030-8
Chapter 2; pp. 39-70;
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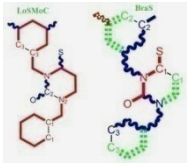
97. DUDAȘ N.A., **PUTZ M.V.** **2016**



Pyrimidine Derivatives with Biological Activity in Anti-HIV Therapy. The Spectral-Diagonal-SAR Approach
în
ADVANCES IN CHEMICAL MODELING. VOLUME 6
Mihai V. Putz (Ed.)
NOVA Science Publishers, Inc., New York, USA
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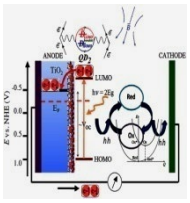
98. **PUTZ M.V.**, TUDORAN M.A., MIRICA M.C. **2016**



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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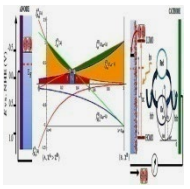

Bondonic Electrochemistry: Basic Concepts and Sustainable Prospects
în
SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS
Mihai V. Putz, Marius Constantin Mirica (Eds.)
IGI Global, Hershey Pasadena, USA
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Sustainable Design of Photovoltaics: Devices and Quantum Information
în
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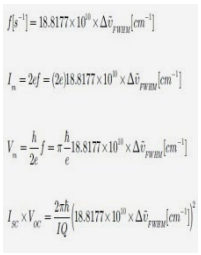
Mihai V. Putz, Marius Constantin Mirica (Eds.)
IGI Global, Hershey Pasadena, USA
Chapter 11, DOI: 10.4018/978-1-5225-0492-4.ch011, pp. 412-489;
♣URL:http://www.igi-global.com/chapter/sustainable-design-of-photovoltaics/162093



101. ORI O., CATALDO F.,**PUTZ M.V.** **2016**
Entropy of Nanostructures: Topological Effects on Schottky Vacancies Concentration in Graphenic Bidimensional HC(N) Lattices
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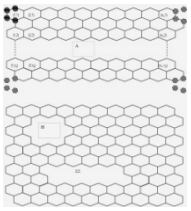
SUSTAINABLE NANOSYSTEMS DEVELOPMENT, PROPERTIES, AND APPLICATIONS
Mihai V. Putz, Marius Constantin Mirica (Eds.)
IGI Global, Hershey Pasadena, USA
Chapter 16, DOI: 10.4018/978-1-5225-0492-4.ch016, pp. 600-614;
♣URL:http://www.igi-global.com/chapter/entropy-of-nanostructures/162098



102. KOOREPAZAN−MOFTAKHAR F., ASHRAFI A.R., ORI O., **PUTZ M.V.** **2016**
Atlas of ρ, ρE, and TM–EC for Fullerenes Isomers
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Mihai V. Putz, Marius Constantin Mirica (Eds.)
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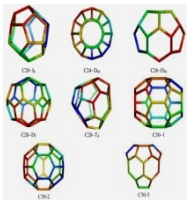
Chapter 17, DOI: 10.4018/978-1-5225-0492-4.ch017, pp. 615-656;
♣URL: http://www.igi-global.com/chapter/atlas-of--e-and-tmec-for-fullerenes-isomers/162099



103. BUZATU D.L., MIRICA M.C., **PUTZ M.V. (*)** **2017**
Semiconductor Graphenes for Photovoltaics
In: NEARLY ZERO ENERGY COMMUNITIES,
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DOI 10.1007/978-3-319-63215-5_25
Hardcover ISBN:978-3-319-63214-8
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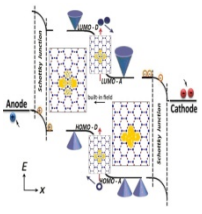
Springer International Publishing AG 2018 (Cham, Switzerland)
♣URL: http://www.springer.com/gp/book/9783319632148



104. IORGA M.I., MIRICA M.C., **PUTZ M.V. (*)** **2017**
Modular Electrochemical Reactivity for Photovoltaics' Machines
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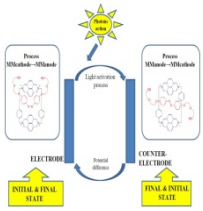
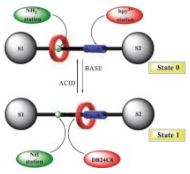


105. IORGA M.I., DUDAȘ N.A., **PUTZ M.V. (*)** **2020**



Complex Electro-Intra-Conversions within Rotaxanes' Molecular Machines
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DOI 10.1007/978-3-030-55757-7
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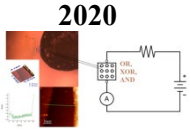

Quantum Metrological Matrices for Sustainable Graphentronics
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DOI 10.1007/978-3-030-55757-7
Hardcover ISBN: 978-3-030-55756-0
eBook ISBN: 978-3-030-55757-7
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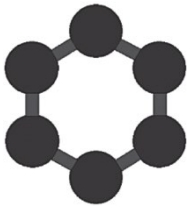
CLUSTERING BY NANOTECH: THE TUNNELING APPROACH.
In: Gabriela Prostean, Juan José Lavios Villahoz, Laura Brancu, Gyula Bakacsi (Eds.) *Innovation in Sustainable Management and Entrepreneurship*. Proceedings of the 2019 International Symposium in Management (SIM2019), Springer Nature (Cham, Switzerland) AG 2020; Springer Proceedings in Business and Economics (ISSN 2198-7246; indexed by Publons:https://publons.com/journal/433516/springer-proceedings-in-business-and-economics/; CitEc: http://citec.repec.org/s/2017/sprprbuec.html; ScienceGate: https://www.sciencegate.app/source/874644489;https://www.springer.com/series/11960]. Chapter 43, pp. 575-590.
♣URL: https://link.springer.com/chapter/10.1007/978-3-030-44711-3_43

THE FOLLOWING CHAPTERS IN:
PUTZ M.V. (Editor)
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, VOLUME 1: STRUCTURAL NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA (**2020**)
pp. 526+index;
ISBN: 978-1-771887-77-9
♣URL:http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779

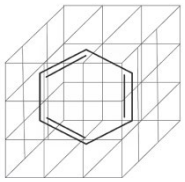
108. Ch. 4. Aromaticity
(pp. 29-43)
PUTZ M.V., TUDORAN M.A.



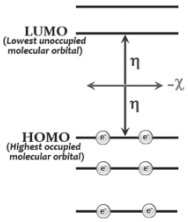
109. Ch. 6. Bondonic Theory
(pp. 49-58)
PUTZ M.V.

$$M_B = \frac{\hbar^2}{2E_{bond}X_{bond}^2}$$

110. Ch. 7. Chemical Modeling
(pp. 59-65)
DUDA-SEIMAN C., DUDA-SEIMAN D., **PUTZ M.V.**



111. Ch. 9. Chemical Orthogonal Space
(pp. 81-93)
PUTZ M.V.

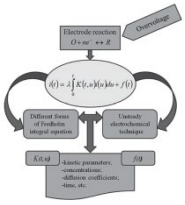


112. Ch. 10. Electrochemical Impedance
(pp. 95-110)
IORGA M.I., **PUTZ M.V.**

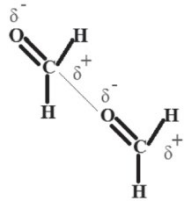
113. Ch. 14. Electron Localization Function
(pp. 133-142)
PUTZ M.V.

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

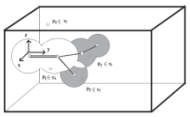
114. Ch. 18. Fredholm Integral Equation in Electrochemistry
(pp. 201-220)
IORGA M.I., **PUTZ M.V.**



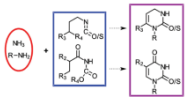
115. Ch. 24. Intermolecular Force Parameters
(pp. 259-269)
BUMBĂCILĂ B.,**PUTZ M.V.**



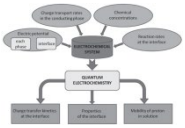
116. Ch. 31. Monte Carlo Molecular Simulations
(pp. 353-363)
BUMBĂCILĂ B.,**PUTZ M.V.**



117. Ch. 41. Pyrimidines
(pp. 445-470)
DUDAȘ N.A., **PUTZ M.V.**



118. Ch. 43. Quantum Electrochemistry
(pp. 475-492)
IORGA M.I., **PUTZ M.V.**



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PUTZ M.V. (Editor)
NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, VOLUME 2: TOPOLOGICAL NANOCHEMISTRY
Apple Academic Press & CRC Press, Toronto-New Jersey, Canada-USA (**2020**)
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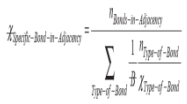

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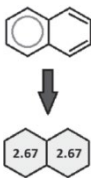

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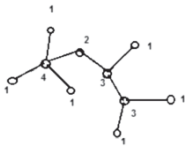

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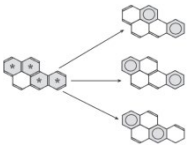

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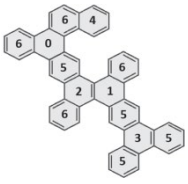

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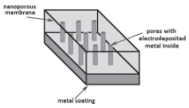

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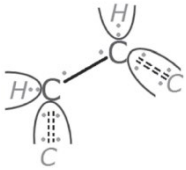

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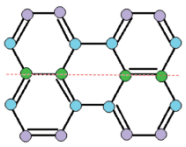

THE FOLLOWING CHAPTERS IN:
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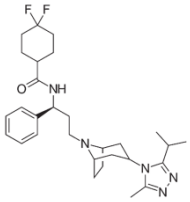

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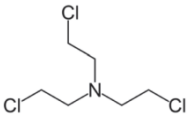

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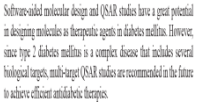

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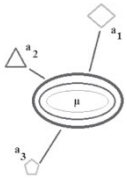

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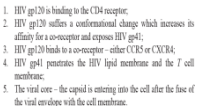

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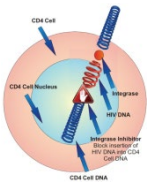

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$$(I)\ (Me_2Li)Le_4 \leftrightarrow (Me_2Li)^{4+} + 4Le^-$$
$$(Me_2Li)^{4+} \rightarrow 2Me^{2+} + Li^0$$

136. Ch. 16. Köln-Model as Toxicologically Procedure for Oils and Derivatives
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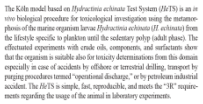
CHICU S.A., TUDORAN M.A., **PUTZ M.V.**



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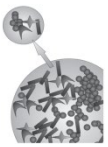

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$$A_i = \alpha - \beta MSD_i$$
$$MSD_i = \sum_{j=1}^{m} d_j \left| w_{i,j} x_{i,j} - v_j \right|$$

139. Ch. 19. Minimal Topological Difference
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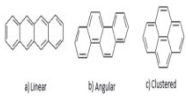
TUDORAN M.A., PUTZ A.M., PITULICE L., **PUTZ M.V.**



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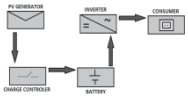

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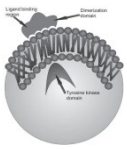

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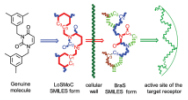
PUTZ M.V., DUDAS N.A.



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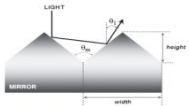
MIRICA M.C., TUDORAN M.A., **PUTZ M.V.**



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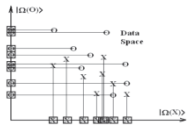
PUTZ M.V., PUTZ A.M., DUDA-SEIMAN C., DUDA-SEIMAN D.



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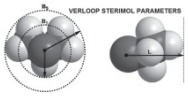
(pp. 437-446)
BUMBăCILĂ B.,**PUTZ M.V.**

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

147. Ch. 32. Sterimol Verloop Parameters
(pp. 447-456)
BUMBăCILĂ B.,**PUTZ M.V.**



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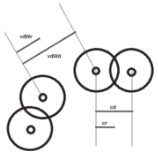
BUMBăCILĂ B.,**PUTZ M.V.**



149. **PUTZ M.V.** **2022**
THE QUANTUM ETHICS DRIVING NANOSCIENCE CHALLENGES: A MANIFOLD SAPIENS 3.0 PERSPECTIVE.
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