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CURRICULUM VITAE & LIST OF RELEVANT SCIENTIFIC PUBLICATIONS

SYNOPSIS

I. Curriculum Vitae	2
II. Relevant post-doctoral publications	5
III. Books and Chapters in Books	7
(a) <i>International Books and Monographs</i>	7
(b) <i>Chapters in International Books and Monographs</i>	9
IV. Articles and Studies <i>in extenso</i> on the Main International Magazines	13
(a) <i>Articles & Reviews Indexed by ISI Thomson Reuters</i>	13
(b) <i>International Articles Indexed in International Databases</i>	18
(c) <i>Articles in Romanian Magazines with ISI Thomson Reuters Impact Factor</i>	21

I. Curriculum Vitae

BIRTH DATE	10/III/1975
BIRTH PLACE	TIMIȘOARA, ROMÂNIA
NATIONALITY	ROMANIAN (European Union)
STATUS	MARRIED, 2 DAUGHTERS (Ana-Ecaterina, Maria-Mihaela)
LANGUAGES	<i>Romanian</i> : native, <i>English</i> : excellent, <i>German</i> : fair, <i>Italian</i> : good, <i>French</i> : sufficient
EDUCATION	IX/1989-VI/1993 NATIONAL COLLEGE "C.D.Loga", Timișoara. VI/1993 BACCALAUREATE X/1993-VII/1997 PHYSICS FACULTY, promotion leader, West University of Timișoara X/1997-III/1999 MASTER (Spectroscopy), West University of Timișoara, with 6 months Research Stage at FU Berlin (TEMPUS JEP 09873) XII/1998-III/2002 DOCTORATE (Chemistry), West University of Timișoara, with 6 months Research Stage at FU Berlin (DAAD: 322A/00/22455) X/2001-X/2003 POST-DOCTORATE (Quantum Chemistry) at University of Calabria, Italy (143/30.10.2001/UNICAL) VII/2004-VIII/2004 POST-DOCTORATE (Quantum Physics) at FU Berlin (DAAD: 322A/04/17690) VII/2010-VIII/2010 GUEST PROFESSORSHIP (Quantum Physics) at FU Berlin (Centre of Int. Cooperation FUB 0503041814) VII/2011-VIII/2011 RESEARCH FELLOWSHIP (Quantum Physics) at FU Berlin (DAAD: 322A/11/05356)
POSITIONS	X/1998-IX/1999 JUNIOR ASSISTANT (General Physics) at Physics Department of Polytechnic University of Timișoara X/1999-IX/2002 JUNIOR ASSISTANT (Crystallography) at Physics Faculty of West University of Timișoara X/2002-II/2005 ASSISTANT (Physical and Inorganic Chemistry), Faculty of Chemistry-Biology-Geography, West Univ. of Timișoara III/2005-IX/2007 LECTURER (Quantum Physical Chemistry), Faculty of Chemistry-Biology-Geography, West Univ. of Timișoara From X/2007 ASSOCIATE PROFESSOR (Physical Chemistry, Structure of Atoms and Molecules), Faculty of Chemistry-Biology-Geography, West Univ. of Timișoara
EXPERTISE	<ul style="list-style-type: none"> • Density Functional Theory • Path Integral Quantum Formalisms • Quantum Chemistry • Enzyme Kinetics & Ecotoxicology • Quantitative Structure-Property (Activity) Relationship - QSP(A)R
SCIENTIFIC ACHIEVEMENTS	<ul style="list-style-type: none"> ○ <i>Primary & review papers</i>: 99 ○ <i>International Conferences' presentations</i>: 20 ○ <i>Monographs & textbooks</i>: 29 ○ <i>Chapters in international Books</i>: 17 ○ <i>H-index (ISI Web of Knowledge)</i>: 11

BOARD	<ul style="list-style-type: none"> ○ <i>Directorship (with research teams) of National (Romanian) Research Grants: CNCSIS/AT-54/2006-2007, CNCS-UEFISCDI/TE-16/2010-2013</i> ● <i>INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES</i>, Multidisciplinary Digital Publishing Institute (MDPI), Basel, Switzerland, ISSN 1422-0067, ISI Impact Factor ~ 2.4, since 2006 [[†]] ● <i>INTERNATIONAL JOURNAL OF CHEMOINFORMATICS AND CHEMICAL ENGINEERING</i>, IGI-Global, Hershey, PA 17033, USA, ISSN: 2155-4110; EISSN: 2155-4129; DOI: 10.4018/IJCCE, since 2011 [[†]] ● <i>POLIMER RESEARCH JOURNAL</i>, NOVA Science Publishers, New York-USA, ISSN: 1935-2530, Indexed by Chemical Abstract Services of American Chemical Society, Elsevier, since 2011 [[†]] ● <i>MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY</i>, Kragujevac University Publisher, Serbia, ISSN: 0340-6253, ISI Impact Factor ~ 3.3, since 2012 [[§]] ● <i>JOURNAL OF THEORETICAL CHEMISTRY</i>, Hindawi Publishing Corporation, ISSN: 2314-6184 (Online), DOI: 10.1155/2797, Indexed by CrossRef & Portico, since 2013 [^{**}]
EDITOR-IN-CHIEF	<ul style="list-style-type: none"> ○ <i>INTERNATIONAL JOURNAL OF CHEMICAL MODELING</i>, NOVA Science Publishers, New York, USA, ISSN: 1941-3955, since 2008 [^{††}] ○ <i>INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCES</i>, Serials Publishers, New Delhi, India, ISSN: 2229-7356, since 2011 [^{††}]
GUEST EDITOR	<ul style="list-style-type: none"> ● <i>CHEMICAL BOND AND BONDING</i> – Special Issue of <i>Int. J. Mol. Sci.</i>, 2007-2008, MDPI, Basel, Switzerland [^{§§}] ● <i>ATOMS IN MOLECULES AND IN NANOSCRUCTURES</i> – Special Issue of <i>Int. J. Mol. Sci.</i>, 2010-2012, published by MDPI, Basel, Switzerland [^{***}] ● <i>POLYCYCLIC AROMATIC HYDROCARBONS: FROM STRUCTURE TO CHEMICAL REACTIVITY TO BIOLOGICAL ACTIVITY</i> – Mini Hot Topic (HT-SBJ-COC-0050) Special Issue of <i>Curr. Org. Chem.</i>, 2013, published by Bentham Science, Sharjah, U.A.E. [^{†††}] ● <i>CURRENT CHALLENGES IN QSAR/QSPR ANALYSIS</i> – Mini Hot Topic (HT-SBJ-CCADD-0004) Special Issue of <i>Curr. Comput. Aided Drug Design</i>, 2013, published by Bentham Science, Sharjah, U.A.E. [^{†††}]
MEMBERSHIP	<ul style="list-style-type: none"> ○ <i>Romanian Chemical Society</i>, since 1999 ○ <i>American Chemical Society (ACS)</i>, since 2006

* http://www.mdpi.com/journal/ijms/sectioneditors/physical_chemistry

† <http://www.igi-global.com/bookstore/titledetails.aspx?titleid=1176&detailstype=reviewboard>

‡ https://www.novapublishers.com/catalog/editorial.php?products_id=5087

§ <http://www.pmf.kg.ac.rs/match/>

** <http://www.hindawi.com/journals/jtc/editors/>

†† https://www.novapublishers.com/catalog/product_info.php?products_id=7111

††† <http://www.serialspublishers.com/journals1.asp?jid=292&dtype=2&jtype=1>

§§ http://www.mdpi.com/journal/ijms/special_issues/bond_bonding

*** http://www.mdpi.com/journal/ijms/special_issues/atoms-in-molecules

††† <http://www.benthamscience.com/coc/Special-Issues.htm>

††† <http://www.benthamscience.com/ccadd/Special-Issues.htm>

AWARDS

- *European Society of Mathematical Chemistry*, since **2007**
- 2008**, October The Best Young Researcher of West University of Timișoara.
- 2008**, December Diploma, Prize, and Medal „*Only healthy ideas can fly all over the world*” awarded by the National Authority for Scientific Research in Romania (ANCS), for „*The Young Eminent Researcher of Timișoara*”
- 2010**, November *The Best Romanian Researcher of The Year 2010 Award*, at National Gala of Education [§§§]
- 2011**, October The *Best Consecrated Researcher of West University of Timișoara*.
- 2010-2012** Included in the Marquis' *Who's Who in the World* 27th (2010) Edition ISBN: 978-0-8379-1144-1, 28th (2011) Edition ISBN: ISBN: 978-0-8379-1145-8, 29th (2012) Edition ISBN: 978-0-8379-1147-2.

§§§ <http://www.premiileineducatie.ro/castigatori/castigator/73/>

II. Relevant post-doctoral publications ****

▼ (2003) ▼

1. **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>

▼ (2004) ▼

2. **PUTZ M.V.**, RUSSO N., SICILIA E. "On the Application of the HSAB Principle through the Use of Improved Computational Schemes for Chemical Hardness Evaluation", *Journal of Computational Chemistry*, 25(7) (2004) 994-1003; DOI: 10.1002/jcc.20027.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/107637137/START>

▼ (2005) ▼

3. **PUTZ M.V.** "Markovian Approach of the Electron Localization Functions", *International Journal of Quantum Chemistry*, 105(1) (2005) 1-11; DOI: 10.1002/qua.20645.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/110497907/START>

▼ (2006) ▼

4. **PUTZ M.V.** "Systematic Formulation for Electronegativity and Hardness and Their Atomic Scales within Density Functional Softness Theory", *International Journal of Quantum Chemistry*, 106(2) (2006) 361-389; DOI: 10.1002/qua.20787.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/112093056/START>

▼ (2007) ▼

5. **PUTZ M.V.**, LACRĂMĂ A.-M. "Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology", *International Journal of Molecular Sciences*, 8(5) (2007) 363-391; DOI: 10.3390/i8050363.
♣ URL: <http://www.mdpi.com/1422-0067/8/5/363>

**** The 10 most relevant papers on which Author's Habilitation Thesis was grounded, as of 2 May 2012

▼(2008)▼

6. **PUTZ M.V.** "Maximum Hardness Index of Quantum Acid-Base Bonding", *MATCH Communications in Mathematical and in Computer Chemistry*, 60(3) (2008) 845-868.

♣ URL: <http://www.pmf.kg.ac.rs/match/content60n3.htm>

▼(2009)▼

7. **PUTZ M.V.** "Electronegativity: Quantum Observable", *International Journal of Quantum Chemistry*, 109 (4) (2009) 733-738; DOI: 10.1002/qua.21957;

♣ URL: <http://www3.interscience.wiley.com/journal/121531030/abstract>

▼(2010)▼

8. **PUTZ M.V.** "The Bondons: The Quantum Particles of the Chemical Bond", *International Journal of Molecular Sciences*, 11(11) (2010) 4227-4256; DOI: 10.3390/ijms11114227 (included in the Special Issue: Atoms in Molecules and in Nanostructures/Mihai V. Putz, guest editor)

♣ URL: <http://www.mdpi.com/1422-0067/11/11/4227>

▼(2011)▼

9. **PUTZ M.V.** "On Reducible Character of Haldane-Radić Enzyme Kinetics to Conventional and Logistic Michaelis-Menten Models", *Molecules*, 16(4) (2011) 3128-3145; DOI:10.3390/molecules16043128; (included in the Special Issue: Enzyme-Catalyzed Reactions/Lajos Novak, guest editor)

♣ URL: <http://www.mdpi.com/1420-3049/16/4/3128/>

10. MATITO E., **PUTZ M.V.** "New Link between Conceptual Density Functional Theory and Electron Delocalization", *Journal of Physical Chemistry A*, 115 (45) (2011) 12459-12462; DOI: 10.1021/jp200731d; (included in the Special Issue: Richard F. W. Bader Festschrift)

♣ URL: <http://pubs.acs.org/doi/abs/10.1021/jp200731d>

III. Books and Chapters in Books

(a) International Books and Monographs

▼ (2003) ▼

1. **PUTZ M.V.** "*CONTRIBUTIONS WITHIN DENSITY FUNCTIONAL THEORY WITH APPLICATIONS IN CHEMICAL REACTIVITY THEORY AND ELECTRONEGATIVITY*", Dissertation.com, Parkland, Florida, USA (2003) 180 pp.; ISBN: 1-58112-184-9;
♣ URL: www.dissertation.com/book.php?method=ISBN&book=1581121849.

▼ (2008) ▼

2. **PUTZ M.V.** (Editor) "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*", Transworld Research Network, Kerala, India (2008), 419 pp.; ISBN: 978-81-7895-306-9.
♣ URL: <http://www.trnres.com/putz.htm>.
♣ URL: <http://www.reassign.com/UserBookDetail.aspx?bkid=755&catid=188#>
3. **PUTZ M.V.** "*ABSOLUTE AND CHEMICAL ELECTRONEGATIVITY AND HARDNESS*", Nova Publishers Inc., New York, USA (2008), 95 pp.; ISBN (e-book): 978-1-60741-207-6; ISBN (printed edition): 978-1-60456-937-7.
URL printed edition (2008):
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>

▼ (2011) ▼

4. **PUTZ M.V.** (Editor) "*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*", NOVA Science Publishers, Inc. , New York, USA (2011), 673 pp.; ISBN: 978-1-61668-158-6
♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687
5. **PUTZ M.V.** (Editor) "*ADVANCES IN CHEMICAL MODELING*", NOVA Science Publishers, Inc. , New York, USA (2011), 467 pp.; ISBN: 978-1-61209-028-3
♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=20389
6. **PUTZ M.V.** (Editor) "*ADVANCES IN CHEMICAL MODELING. VOLUME 2*", NOVA Science Publishers, Inc., New York, USA (2011), 468 pp.; ISBN: 978-1-61209-669-8
♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=21916

7. **PUTZ M.V.** (Editor) "*CARBON BONDING AND STRUCTURES: ADVANCES IN PHYSICS AND CHEMISTRY*", Springer Verlag, London, **2011**, pages 445, ISBN: 978-94-007-1732-9; *Book included in the SERIES „CARBON MATERIALS: CHEMISTRY AND PHYSICS” (Series Editors: Franco Cataldo, Paolo Milani), Series ISSN: 1875-0745*
♣URL: <http://www.springer.com/chemistry/physical+chemistry/book/978-94-007-1732-9>

▼(2012)▼

8. **PUTZ M.V.** (Editor) "*QSAR & SPECTRAL-SAR IN COMPUTATIONAL ECOTOXICOLOGY*", Apple Academics, Ontario, Canada (**2012**), 242 pp.; ISBN: 978-1-926895-13-0.
♣URL: <http://www.appleacademicpress.com/title.php?id=50>
9. **PUTZ M.V.** "*QUANTUM THEORY: DENSITY, CONDENSATION, AND BONDING*", Apple Academics, Ontario, Canada (**2012**), 272 pp.; ISBN: 978-1-926895-14-7.
♣URL: <http://www.appleacademicpress.com/title.php?id=56>
10. **PUTZ M.V.** (Editor) "*CHEMICAL INFORMATION AND COMPUTATIONAL CHALLENGES IN 21ST ~ A Celebration of 2011 International Year of Chemistry ~*", NOVA Science Publishers, Inc., New York, USA (**2012**), 356 pp.; ISBN: 978-1-61209-712-1
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=22003
11. **PUTZ M.V.** "*CHEMICAL ORTHOGONAL SPACES*" in *Mathematical Chemistry Monographs*, Vol. 14, Kragujevac, Serbia (2012) X + 240 pp. Hardcover, 12 color illus. ISBN: 978-86-6009-019-7, pp. 240;
♣URL: <http://www.pmf.kg.ac.rs/match/mcm14.html>
12. **PUTZ M.V.** & **MINGOS D.M.P.** (Editors) "*APPLICATIONS OF DENSITY FUNCTIONAL THEORY TO CHEMICAL REACTIVITY*", in "Structure and Bonding" Series, Springer Verlag, Berlin-Heidelberg, Germany (**2012**), 189 pp.; ISBN (Hardcover): 978-3-642-32752-0
♣URL: <http://www.springer.com/chemistry/inorganic+chemistry/book/978-3-642-32752-0>

▼(2013)▼

13. **PUTZ M.V.** (Editor) "*ADVANCES IN CHEMICAL MODELING. VOLUME 3*", NOVA Science Publishers, Inc., New York, USA (**2013**), 484 pp.; ISBN: 978-1-62257-110-9.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=34573
14. **PUTZ M.V.** & **MINGOS D.M.P.** (Editors) "*APPLICATIONS OF DENSITY FUNCTIONAL THEORY TO BIOLOGICAL AND BIOINORGANIC CHEMISTRY*",

in "Structure and Bonding" Series, Springer Verlag, Berlin-Heidelberg, Germany (2013), 288 pp.; ISBN (Hardcover): 978-3-642-32749-0

♣URL: <http://www.springer.com/chemistry/inorganic+chemistry/book/978-3-642-32749-0>

(b) Chapters in International Books and Monographs

▼ (2003) ▼

15. 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 Cases", in "*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 (2003) ISBN: 1-4020-1495-3, pp. 1-20. ♣ URL: <http://www.springer.com/chemistry/inorganic/book/978-1-4020-1494-9>

▼ (2006) ▼

16. **PUTZ M.V.** "Deviance, Minors and the Catastrophe Theory: an Integrated Approach and Its Applications" (originally in Italian as "Devianza, Minori e Teoria delle Catastrofi: un Approach Integrato e le Sue Applicazioni"), in "*ESSENTIAL DISASTERS- THE ANATOMY OF YOUTH DISASTER*" (originally in Italian as "*CATASTROFI ESISTENZIALI-ANATOMIA DEL DISAGIO GIOVANILE*"), edited by Silvana Palazzo with a Foreword by Giovanni Latorre (Rector of University of Calabria), Periferia Publishing House, Cosenza, Italy (2006), ISBN: 88-87080-59-3, pp. 57-85.
♣ URL: http://www.edizioniperiferia.it/scheda_libro.php?id_libro=129
♣ URL: <http://www.silvanapalazzo.it/>

▼ (2007) ▼

17. **PUTZ M.V.** "Unifying Absolute and Chemical Electronegativity and Hardness Density Functional Formulations through the Chemical Action Concept", in "*PROGRESS IN QUANTUM CHEMISTRY RESEARCH*", Erik O. Hoffman (Ed.), Nova Science Publishers Inc., New York, USA (2007), 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
18. **PUTZ M.V.** "Can Quantum-Mechanical Description of Chemical Bond Be Considered Complete?", in "*QUANTUM CHEMISTRY RESEARCH TRENDS*", Mikas P. Kaisas (Ed.), Nova Science Publishers Inc., New York, USA (2007), 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

▼(2008)▼

19. **PUTZ M.V.**, CHIRIAC A. "Quantum Perspectives on the Nature of the Chemical Bond", in "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*", Mihai V. Putz (Ed.), Transworld Research Network, Kerala, India (**2008**), ISBN: 978-81-7895-306-9, Chapter 1, pp. 1-43.
♣URL: <http://www.trnres.com/putz.htm>.
20. **PUTZ M.V.**, DUDA-SEIMAN D., MANCAȘ S., DUDA-SEIMAN C., LACRĂMĂ A.-M. "Quantum and Topological Impact on HMG-CoA Reductase Inhibitors", in "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*", Mihai V. Putz (Ed.), Transworld Research Network, Kerala, India (**2008**), ISBN: 978-81-7895-306-9, Chapter 15, pp. 355-387.
♣URL: <http://www.trnres.com/putz.htm>.
21. LACRĂMĂ A.-M., **PUTZ M.V.**, OSTAFE V. "Designing a Spectral Structure-Activity Ecotoxicological Battery", in "*ADVANCES IN QUANTUM CHEMICAL BONDING STRUCTURES*", Mihai V. Putz (Ed.), Transworld Research Network, Kerala, India (**2008**), ISBN: 978-81-7895-306-9, Chapter 16, pp. 389-419.
♣URL: <http://www.trnres.com/putz.htm>

▼(2011)▼

22. **PUTZ M.V.** "Fulfilling The Dirac Promises on Quantum Chemical Bond", in "*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*", Mihai V. Putz (Ed.), Series „*Chemistry Research And Applications*”, NOVA Science Publishers, Inc., New York, USA (**2011**), ISBN: 978-1-61668-158-6, Chapter 1, pp. 1-20.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687
23. **PUTZ M.V.** "Quantum and Electrodynamical Versatility of Electronegativity and Chemical Hardness", in "*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*", Mihai V. Putz (Ed.), Series „*Chemistry Research And Applications*”, NOVA Science Publishers, Inc., New York, USA (**2011**), ISBN: 978-1-61668-158-6, Chapter 11, pp. 251-270.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687
24. **PUTZ M.V.**, PUTZ A.M. "Timisoara Spectral – Structure Activity Relationship (Spectral-SAR) Algorithm: From Statistical and Algebraic Fundamentals to Quantum Consequences", in "*QUANTUM FRONTIERS OF ATOMS AND MOLECULES*", Mihai V. Putz (Ed.), Series „*Chemistry Research And Applications*”, NOVA Science Publishers, Inc., New York, USA (**2011**), ISBN: 978-1-61668-158-6, Chapter 21, pp. 539-580.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12687
25. **PUTZ M.V.** "Conceptual Density Functional Theory: from Inhomogeneous Electronic Gas to Bose-Einstein Condensates", in "*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” & „Chemical Engineering Methods and Technology”, NOVA Science Publishers, Inc., New York, USA (2011), ISBN: 978-1-61209-712-1, Chapter 1, pp. 1-60.

♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=22003

26. **PUTZ M.V.** "Hidden Side of Chemical Bond: The Bosonic Condensate", in "*ADVANCES IN CHEMISTRY RESEARCH. VOLUME 10*", James C. Taylor (Ed.), Series „Advances in Chemistry Research”, NOVA Science Publishers, Inc., New York, USA (2011), ISBN: 978-1-61324-018-2, Chapter 8, pp. 261-298.

♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=22671

27. **PUTZ M.V.** "Quantum Parabolic Effects of Electronegativity and Chemical Hardness on Carbon π -Systems", in "*CARBON BONDING AND STRUCTURES: ADVANCES IN PHYSICS AND CHEMISTRY*", Mihai V. Putz (Ed.), Springer Verlag, London, 2011, pages. 500, ISBN: 978-94-007-1732-9; *Book included in the SERIES „Carbon Materials: Chemistry and Physics*”, Series ISSN: 1875-0745, Chapter 1, pp. 1-32.

♣URL: <http://www.springer.com/chemistry/physical+chemistry/book/978-94-007-1732-9>

28. **PUTZ M.V.**, **PUTZ A.M.** "Logistic versus W-Lambert information in modelling enzyme kinetics", in "*ADVANCED METHODS AND APPLICATIONS IN CHEMOINFORMATICS: RESEARCH METHODS AND NEW APPLICATIONS*", E.A. Castro, A. K. Haghi (Editors), IGI Global (formerly Idea Group Inc.), 701 E. Chocolate Avenue Hershey, PA 17033, USA (2011), ISBN 978-1-60960-860-6 (hardcover) -- ISBN 978-1-60960-861-3 (ebook) -- ISBN 978-1-60960-862-0 (print & perpetual access), Chapter 7, pp. 168-188.

♣URL: <http://www.igi-global.com/bookstore/chapter.aspx?titleid=56454>

Joint IGI publication with **PUTZ M.V.**, **PUTZ A.M.** "Logistic vs. W-Lambert Information in Quantum Modeling of Enzyme Kinetics", *International Journal of Chemoinformatics and Chemical Engineering*, 1(1) (2011) 42-60; DOI: 10.4018/ijcce.2011010104.

♣ URL: <http://www.igi-global.com/Bookstore/Article.aspx?TitleId=50471>

▼ (2012) ▼

29. **PUTZ M.V.** " Nanoroots of Quantum Chemistry: Atomic Radii, Periodic Behavior, and Bondons", in "*NANOSCIENCE AND ADVANCING COMPUTATIONAL METHODS IN CHEMISTRY: RESEARCH PROGRESS*", E.A. Castro, A. K. Haghi (Editors), IGI Global (formerly Idea Group Inc.), 701 E. Chocolate Avenue Hershey, PA 17033, USA (2012), DOI: 10.4018/978-1-4666-1607-3.ch004, ISBN13: 9781466616073, ISBN10: 1466616075, EISBN13: 9781466616080; pp. 103-143.

♣URL: <http://www.igi-global.com/chapter/nanoroots-quantum-chemistry-atomic-radii/66247>

30. **PUTZ M.V.** "Chemical Reactivity and Biological Activity Criteria from DFT Parabolic Dependency $E=E(N)$ ", in "*THEORETICAL AND COMPUTATIONAL DEVELOPMENTS IN MODERN DENSITY FUNCTIONAL THEORY*", A. K. Roy (Ed.), NOVA Science Publishers, Inc., New York, USA (2012), ISBN: 978-1-61942-779-2, Chapter 17, pp. 449-484.
♣URL: https://www.novapublishers.com/catalog/product_info.php?products_id=31589

▼ (2013) ▼

31. PUTZ A.M., **PUTZ M.V.** " Spectral-Structure Activity Relationship (Spectral-SAR) Assessment of Ionic Liquids' in Silico Ecotoxicity", in "*IONIC LIQUIDS - NEW ASPECTS FOR THE FUTURE*", Jun-ichi Kadokawa (Ed.), InTech, Inc., Rijeka-New York-Shanghai, Croatia-USA-China (2013), ISBN: 978-953-51-0937-2, Chapter 4 (DOI:10.5772/51657), pp. 85-126.
♣URL: <http://dx.doi.org/10.5772/51657>

IV. Articles and Studies *in extenso* on the Main International Magazines

(a) Articles & Reviews Indexed by ISI Thomson Reuters

▼ (2002) ▼

1. 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>

▼ (2003) ▼

2. 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>
3. 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://www3.interscience.wiley.com/cgi-bin/abstract/104543091/START>

▼ (2004) ▼

4. PUTZ M.V., RUSSO N., SICILIA E. "On the Application of the HSAB Principle through the Use of Improved Computational Schemes for Chemical Hardness Evaluation", *Journal of Computational Chemistry*, 25(7) (2004) 994-1003; DOI: 10.1002/jcc.20027.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/107637137/START>

▼ (2005) ▼

5. PUTZ M.V., RUSSO N., SICILIA E. "About the Mulliken Electronegativity in DFT", *Theoretical Chemistry Accounts*, 114(1-3) (2005) 38-45; DOI: 10.1007/s00214-005-0641-4.
♣ URL: <http://www.springerlink.com/content/r5q2791060262416/>
♣ URL: <http://arxiv.org/abs/physics/0405005>
6. PUTZ M.V. "Markovian Approach of the Electron Localization Functions", *International Journal of Quantum Chemistry*, 105(1) (2005) 1-11; DOI: 10.1002/qua.20645.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/110497907/START>

▼(2006)▼

7. **PUTZ M.V.** "Systematic Formulation for Electronegativity and Hardness and Their Atomic Scales within Density Functional Softness Theory", *International Journal of Quantum Chemistry*, 106(2) (2006) 361-389; DOI: 10.1002/qua.20787.
♣ URL: <http://www3.interscience.wiley.com/cgi-bin/abstract/112093056/START>
8. **PUTZ M.V.**, LACRĂMĂ A.-M., OSTAFE V. "Full Analytic Progress Curves of the Enzymic Reactions in Vitro", *International Journal of Molecular Sciences*, 7(11) (2006) 469-484; DOI: 10.3390/i7110469.
♣ URL: <http://www.mdpi.com/1422-0067/7/11/469>
9. DUDA-SEIMAN C., DUDA-SEIMAN D., DRAGOȘ D., MEDELEANU M., CAREJA V., **PUTZ M.V.**, LACRĂMĂ A.-M., CHIRIAC A., NUȚIU R., CIUBOTARIU D. "Design of Anti-HIV Ligands by Means of Minimal Topological Difference (MTD) Method", *International Journal of Molecular Sciences*, 7(11) (2006) 537-555; DOI: 10.3390/i7110537.
♣ URL: <http://www.mdpi.com/1422-0067/7/11/537>

▼(2007)▼

10. **PUTZ M.V.** "Semiclassical Electronegativity and Chemical Hardness", *Journal of Theoretical and Computational Chemistry*, 6(1) (2007) 33-47; DOI: 10.1142/S0219633607002861;
♣ URL: <http://www.worldscinet.com/jtcc/06/0601/S0219633607002861.html>
11. **PUTZ M.V.**, LACRĂMĂ A.-M. "Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology", *International Journal of Molecular Sciences*, 8(5) (2007) 363-391; DOI: 10.3390/i8050363.
♣ URL: <http://www.mdpi.com/1422-0067/8/5/363>
12. LACRĂMĂ A.-M., **PUTZ M.V.**, OSTAFE V. "A Spectral-SAR Model for the Anionic-Cationic Interaction in Ionic Liquids: Application to *Vibrio fischeri* Ecotoxicity", *International Journal of Molecular Sciences*, 8(8) (2007) 842-863; DOI: 10.3390/i8080842 (included in the Special Issue: Ionic Liquids/Jairton Dupont, guest editor)
♣ URL: <http://www.mdpi.com/1422-0067/8/8/842>

▼(2008)▼

13. **PUTZ M.V.** "Density Functionals of Chemical Bonding", *International Journal of Molecular Sciences*, 9(6) (2008) 1050-1095; DOI: 10.3390/ijms9061050 (included in the Special Issue: The Chemical Bond and Bonding/Mihai V. Putz, guest editor)
♣ URL: <http://www.mdpi.com/1422-0067/9/6/1050>

14. **PUTZ M.V.** "Maximum Hardness Index of Quantum Acid-Base Bonding", *MATCH Communications in Mathematical and in Computer Chemistry*, 60(3) (2008) 845-868.

♣ URL: <http://www.pmf.kg.ac.rs/match/content60n3.htm>

▼ (2009) ▼

15. **PUTZ M.V.** "Electronegativity: Quantum Observable", *International Journal of Quantum Chemistry*, 109 (4) (2009) 733-738; DOI: 10.1002/qua.21957;

♣ URL: <http://www3.interscience.wiley.com/journal/121531030/abstract>

16. **PUTZ M.V.**, **PUTZ A.M.**, LAZEA M., IENCIU L., CHIRIAC A. "Quantum-SAR Extension of the Spectral-SAR Algorithm. Application to Polyphenolic Anticancer Bioactivity", *International Journal of Molecular Sciences*, 10(3) (2009) 1193-1214; DOI: 10.3390/ijms10031193 (included in the Special Issue: Recent Advances in QSAR/QSPR Theory/Eduardo A. Castro, guest editor)

♣ URL: <http://www.mdpi.com/1422-0067/10/3/1193>

17. **PUTZ M.V.** "Chemical Action and Chemical Bonding", *Journal of Molecular Structure: THEOCHEM*, 900 (1-3) (2009) 64-70 DOI: 10.1016/j.theochem.2008.12.026.

♣ URL: <http://dx.doi.org/10.1016/j.theochem.2008.12.026>

18. SELEGEAN M., **PUTZ M.V.**, RUGEA T. "Effect of the Polysaccharide Extract from the Edible Mushroom *Pleurotus Ostreatus* against Infectious Bursal Disease Virus", *International Journal of Molecular Sciences*, 10(8) (2009) 3616-3634; DOI: 10.3390/ijms10083616

♣ URL: <http://www.mdpi.com/1422-0067/10/8/3616>

19. CHICU S.A., **PUTZ M.V.** "Köln-Timişoara Molecular Activity Combined Models toward Interspecies Toxicity Assessment", *International Journal of Molecular Sciences*, 10(10) (2009) 4474-4497; DOI: doi:10.3390/ijms10104474

♣ URL: <http://www.mdpi.com/1422-0067/10/10/4474>

20. **PUTZ M.V.** "Path Integrals for Electronic Densities, Reactivity Indices, and Localization Functions in Quantum Systems", *International Journal of Molecular Sciences*, 10(11) (2009) 4816-4940; DOI: 10.3390/ijms10114816 (included in the Special Issue: Applications of Density Functional Theory/Abhijit Chatterjee, guest editor)

♣ URL: <http://www.mdpi.com/1422-0067/10/11/4816>

21. **PUTZ M.V.**, **PUTZ A.M.**, LAZEA M., CHIRIAC A. "Spectral vs. Statistic Approach of Structure-Activity Relationship. Application on Ecotoxicity of Aliphatic Amines", *Journal of Theoretical and Computational Chemistry*, 8(6) (2009) 1235-1251; DOI: 10.1142/S0219633609005453;

♣ URL: <http://www.worldscinet.com/jtcc/08/0806/S0219633609005453.html>

▼(2010)▼

22. TARKO L., PUTZ M.V. "On Electronegativity and Chemical Hardness Relationships with Aromaticity", *Journal of Mathematical Chemistry*, 47(1) (2010) 487-495; DOI: 10.1007/s10910-009-9585-6.
♣ URL: <http://www.springerlink.com/content/f81757qmh225m8v1/>
23. PUTZ M.V. "On Absolute Aromaticity within Electronegativity and Chemical Hardness Reactivity Pictures", *MATCH Communications in Mathematical and in Computer Chemistry*, 64(2) (2010) 391-418.
♣ URL: <http://www.pmf.kg.ac.rs/match/content64n2.htm>
24. PUTZ M.V. "Compactness Aromaticity of Atoms in Molecules", *International Journal of Molecular Sciences*, 11(4) (2010) 1269-1310; DOI: 10.3390/ijms11041269 (included in the Special Issue: Atoms in Molecules and in Nanostructures/Mihai V. Putz, guest editor)
♣ URL: <http://www.mdpi.com/1422-0067/11/4/1269>
25. PUTZ M.V. "On Heisenberg Uncertainty Relationship, Its Extension, and the Quantum Issue of Wave-Particle Duality", *International Journal of Molecular Sciences*, 11(10) (2010) 4124-4139; DOI: 10.3390/ijms11104124 (included in the Special Issue: Advances in Molecular Electronic Structure Calculations/Eduardo A. Castro, guest editor)
♣ URL: <http://www.mdpi.com/1422-0067/11/10/4124>
26. PUTZ M.V. "The Bondons: The Quantum Particles of the Chemical Bond", *International Journal of Molecular Sciences*, 11(11) (2010) 4227-4256; DOI: 10.3390/ijms11114227 (included in the Special Issue: Atoms in Molecules and in Nanostructures/Mihai V. Putz, guest editor)
♣ URL: <http://www.mdpi.com/1422-0067/11/11/4227>

▼(2011)▼

27. DUDA-SEIMAN D., AVRAM S., MANCAS S., CAREJA V., DUDA-SEIMAN C., PUTZ M.V., CIUBOTARIU D. "MTD-CoMSIA Modeling of HMG-CoA Reductase Inhibitors", *Journal of Serbian Chemical Society*, 76(1) (2011) 85-99; DOI: 10.2298/JSC100601019D.
♣ URL: http://www.shd.org.rs/JSCS/Vol76/No1/09_4798_4102.pdf
28. PUTZ M.V. "Chemical Action Concept and Principle", *MATCH Communications in Mathematical and in Computer Chemistry*, 66(1) (2011) 35-63.
♣ URL: <http://www.pmf.kg.ac.rs/match/content66n1.htm>
29. PUTZ M.V. "On Reducible Character of Haldane-Radić Enzyme Kinetics to Conventional and Logistic Michaelis-Menten Models", *Molecules*, 16(4) (2011)

- 3128-3145; DOI:10.3390/molecules16043128; (included in the Special Issue: Enzyme-Catalyzed Reactions/Lajos Novak, guest editor)
♣ URL: <http://www.mdpi.com/1420-3049/16/4/3128/>
30. **PUTZ M.V.** "Residual-QSAR. Implications for Genotoxic Carcinogenesis", *Chemistry Central Journal*, 5 (2011) 29 (11 pages); DOI: 10.1186/1752-153X-5-29.
♣ URL: <http://www.journal.chemistrycentral.com/content/5/1/29>
31. **MATITO E., PUTZ M.V.** "New Link between Conceptual Density Functional Theory and Electron Delocalization", *Journal of Physical Chemistry A*, 115 (45) (2011) 12459-12462; DOI: 10.1021/jp200731d; (included in the Special Issue: Richard F. W. Bader Festschrift)
♣ URL: <http://pubs.acs.org/doi/abs/10.1021/jp200731d>
32. **PUTZ M.V., LAZEA M., SANDJO L.P.** "Quantitative Structure Inter-Activity Relationship (QSInAR). Cytotoxicity Study of Some Hemisynthetic and Isolated Natural Steroids and Precursors on Human Fibrosarcoma Cells HT1080", *Molecules*, 16(8) (2011) 6603-6620; DOI: 10.3390/molecules16086603
♣ URL: <http://www.mdpi.com/1420-3049/16/8/6603/>
33. **PUTZ M.V., IONAȘCU C., PUTZ A.M., OSTAFE V.** "Alert-QSAR. Implications for Electrophilic Theory of Chemical Carcinogenesis", *International Journal of Molecular Sciences*, 12(8) (2011) 5098-5134; DOI: 10.3390/ijms12085098
♣ URL: <http://www.mdpi.com/1422-0067/12/8/5098/>
34. **ORI O., CATALDO F., PUTZ M.V.** "Topological Anisotropy of Stone-Wales Waves in Graphenic Fragments", *International Journal of Molecular Sciences*, 12(11) (2011) 7934-7949; DOI: 10.3390/ijms12117934
♣ URL: <http://www.mdpi.com/1422-0067/12/11/7934/>
35. **PUTZ M.V., LAZEA M., PUTZ A.M., SEIMAN-DUDA C.** "Introducing Catastrophe-QSAR. Application on Modeling Molecular Mechanisms of Pyridinone Derivative-Type HIV Non-Nucleoside Reverse Transcriptase Inhibitors", *International Journal of Molecular Sciences*, 12(12) (2011) 9533-9569; DOI: 10.3390/ijms12129533
♣ URL: <http://www.mdpi.com/1422-0067/12/12/9533/>

▼(2012)▼

36. **TARKO L., PUTZ M.V.** "On Quantitative Structure-Toxicity Relationships (QSTR) using High Chemical Diversity Molecules Group", *Journal of Theoretical and Computational Chemistry*, 11(2) (2012) 265-272; DOI: 10.1142/S0219633612500174
♣ URL: <http://www.worldscinet.com/jtcc/11/1102/S0219633612500174.html>

37. **PUTZ M.V.**, ORIO. Bondonic Characterization of Extended Nanosystems: Application to Graphene's Nanoribbons. *Chemical Physics Letters* 548 (2012) 95-100; DOI: 10.1016/j.cplett.2012.08.019.
♣ URL: <http://www.sciencedirect.com/science/article/pii/S0009261412009359?v=s5>
38. **PUTZ M.V.** Valence Atom with Bohmian Quantum Potential: The Golden Ratio Approach. *Chem. Central J.* 6 (2012) 135 (16 pages); DOI: 10.1186/1752-153X-6-135;
♣ URL: <http://journal.chemistrycentral.com/content/6/1/135/abstract>
39. **PUTZ A.M.**, **PUTZ M.V.** Spectral Inverse Quantum (Spectral-IQ) Method for Modeling Mesoporous Systems. Application on Silica Films by FTIR. *International Journal of Molecular Sciences*, 13(12) (2012) 15925-15941; DOI:10.3390/ijms131215925;
♣ URL: <http://www.mdpi.com/1422-0067/13/12/15925>
40. **PUTZ M.V.** Density Functional Theory of Bose-Einstein Condensation: Road to Chemical Bonding Quantum Condensate. *Structure and Bonding* 149 (2012) 1-50; DOI: 10.1007/978-3-642-32753-7_1;
♣ URL: http://link.springer.com/chapter/10.1007%2F978-3-642-32753-7_1

▼ (2013) ▼

41. **PUTZ M.V.**, **PUTZ A.M.** DFT Chemical Reactivity Driven by Biological Activity: Applications for the Toxicological Fate of Chlorinated PAHs. *Structure and Bonding* 150 (2013) 181–232; DOI: 10.1007/978-3-642-32750-6_6;
♣ URL: <http://www.springer.com/chemistry/inorganic+chemistry/book/978-3-642-32749-0>

(b) International Articles Indexed in International Databases

▼ (2007) ▼

42. **PUTZ M.V.**, **LACRĂMĂ A.-M.**, **OSTAFE V.** "Spectral-SAR Ecotoxicology of Ionic Liquids. The *Daphnia magna* Case", *International Journal of Ecology (former Research Letters in Ecology)*, ISSN: 1687-9708 e-ISSN: 1687-9716, Article ID12813/5 pages, DOI: 10.1155/2007/12813, 2007.
♣ URL: <http://www.hindawi.com/journals/ijeco/2007/012813/abs/>

▼ (2008) ▼

43. **PUTZ M.V.**, **DUDA-SEIMAN C.**, **DUDA-SEIMAN D.M.**, **PUTZ A.-M.** "Turning SPECTRAL-SAR into 3D-QSAR Analysis. Application on H⁺K⁺-ATPase Inhibitory Activity", *International Journal of Chemical Modeling*, 1(1) (2008) 45-62.
♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=7387

44. **PUTZ M.V.** "The Chemical Bond: Spontaneous Symmetry – Breaking Approach", *Symmetry: Culture and Science*, 19(4) (2008) 249-262, ISSN 0865-4824, Special Issue on Symmetries in Nanostructures (guest editor Mircea Diudea).

♣ URL: http://symmetry.hu/content/aus_journal_content_abs_2008_19_4.html

▼ (2009) ▼

45. **PUTZ M.V.** "Levels of a Unified Theory of Chemical Interaction", *International Journal of Chemical Modeling*, 1(2) (2009) 141-147.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=8322

46. **PUTZ M.V.** "Chemical Reactivity and Electromagnetic Field", *International Journal of Chemical Modeling*, 1(3/4) (2009) 329-334, special issue (Ante Graovac and Roberto Todeschini – Guest Editors) with selected papers as Proceedings of Math/Chem/Comp 23th International Conference in Dubrovnik, 16-21 June 2008, dedicated to contribution of Prof. Milan Randić on chemical modeling and chemical graph theory.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=9018

▼ (2010) ▼

47. **PUTZ M.V.**, **PUTZ A.-M.**, **OSTAFE V.**, **CHIRIAC A.** "Spectral-SAR Ecotoxicology of Ionic Liquids-Acetylcholine Interaction on *E. Electricus* Species", *International Journal of Chemical Modeling*, 2(1) (2010) 85-96.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=10015

48. **PUTZ M.V.** "Cosmos, Order and Obligations: The Big CO₂", *International Journal of Environmental Sciences*, 1(January-June) (2010) 1-8.

♣ URL: <http://www.serialspublications.com/contentnormal.asp?jid=292&jtype=1>

49. **PUTZ M.V.** "Beyond Quantum Nonlocality: Chemical Bonding Field", *International Journal of Environmental Sciences*, 1(1) (2010) 25-31.

♣ URL: <http://www.serialspublications.com/contentnormal.asp?jid=292&jtype=1>

50. **LAZEA M.**, **CHIRIAC A.**, **PUTZ M.V.** "Flavonoids in Ecotoxicological Context: The Hydrophobicity Role in Common QSARs", *International Journal of Environmental Sciences*, 1 (2) (2010) 137-152.

♣ URL: <http://www.serialspublications.com/contentnormal.asp?jid=292&jtype=1>

51. **PUTZ M.V.** "Chemical Action and the Transition State Reactivity", *International Journal of Chemical Modeling*, 2(2/3) (2010) 147-154; special issue (Mihai V. Putz & Mircea Diudea – Guest Editors) dedicated to contribution of Prof. Lionello Pogliani on chemical modeling and mathematical chemistry.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=10861

52. **PUTZ M.V.**, PUTZ A.-M., PITULICE L., CHIRIAC V. "On Chemical Hardness Assessment of Aromaticity for Some Organic Compounds", *International Journal of Chemical Modeling*, 2(4) (2010) 343-354.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=12950

▼(2011)▼

53. **PUTZ M.V.** "Electronegativity and Chemical Hardness: Different Patterns in Quantum Chemistry", *Current Physical Chemistry*, 1(2) (2011) 111-139; DOI: doi: 10.2174/1877946811101020111

♣ URL: <http://www.benthamdirect.org/pages/content.php?CPC/2011/00000001/00000002/0006CPC.SGM>

54. **PUTZ M.V.** "Big Chemical Ideas in Context: The Periodic Law and Scerri's Periodic Table", *International Journal of Chemical Modeling*, 3(1-2) (2011) 15-22; special issue (Mihai V. Putz & Ante Graovac – Guest Editors) dedicated to contribution of Prof. Tomaz Pisanski on chemical modeling and mathematical chemistry.

♣ URL (Journal): https://www.novapublishers.com/catalog/product_info.php?products_id=18123

♣ URL (full text): https://www.novapublishers.com/catalog/product_info.php?products_id=25709

55. **PUTZ M.V.**, IONAȘCU C., CHIRIAC, A. "Testing Elemental Periodicity by QSPR", *International Journal of Chemical Modeling*, 3(1-2) (2011) 23-28; special issue (Mihai V. Putz & Ante Graovac – Guest Editors) dedicated to contribution of Prof. Tomaz Pisanski on chemical modeling and mathematical chemistry.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=18123

56. **PUTZ M.V.**, PUTZ A.M., BAROU R. "Spectral-SAR Realization of OECD-QSAR Principles", *International Journal of Chemical Modeling*, 3(3) (2011) 173-190; special issue (Mihai V. Putz-Guest Editor) dedicated to 65th anniversary of Prof. Eduardo A. Castro

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=24613

57. **PUTZ M.V.** "On Relationship between Electronic Sharing in Bonding and Electronegativity Equalization of Atoms in Molecules", *International Journal of Chemical Modeling*, 3(4) (2011) 371-384; special issue (Mihai V. Putz-Guest Editor) dedicated to 60th anniversary of Prof. Mircea V. Diudea.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=28877

▼(2012)▼

58. **PUTZ M.V.** "From Kohn-Sham to Gross-Pitaevsky equation within Bose-Einstein condensation ψ -theory", *International Journal of Chemical Modeling*, 4(1) (2012) 1-11.

♣ URL: https://www.novapublishers.com/catalog/product_info.php?products_id=31781

(c) Articles in Romanian Magazines with ISI Thomson Reuters Impact Factor**▼ (2007) ▼**

59. PUTZ M.V., LACRĂMĂ A.-M. "Enzymatic control of the bio-inspired nanomaterials at the spectroscopic level", *Journal of Optoelectronics and Advanced Materials*, 9 (8) (2007) 2529 – 2534.
♣ URL: <http://inoe.inoe.ro/joam>
60. PUTZ M.V., LACRĂMĂ A.-M., OSTAFE V. "Introducing logistic enzyme kinetics", *Journal of Optoelectronics and Advanced Materials*, 9 (9) (2007) 2910 – 2916.
♣ URL: <http://inoe.inoe.ro/joam>
61. DUDA-SEIMAN C., DUDA-SEIMAN D., PUTZ M.V., CIUBOTARIU D. "QSAR Modelling of Anti-HIV with HEPT Derivatives", *Digest Journal of Nanomaterials and Biostructures*, 2(2) (2007) 207-219.
♣ URL: http://www.chalcogen.infim.ro/Putz-AntiHIV_DJNB_2007.pdf

▼ (2008) ▼

62. PUTZ M.V., PUTZ (LACRĂMĂ) A.-M. "Spectral-SAR: Old Wine in New Bottle", *Studia Universitatis Babeş-Bolyai - Seria Chimia*, 53 (2) (2008) 73 – 81.
♣ URL: http://chem.ubbcluj.ro/~studiachemia/docs/Chimia_2_2008.pdf

▼ (2009) ▼

63. VULPEŞ D., PUTZ M.V., CHIRIAC A. "QSAR Study on The Anaesthetic Activity of Some Barbiturates and Thiobarbiturates", *Romanian Journal of Chemistry (Revue Roumaine de Chimie)*, 54(9) (2009) 723-732.
♣ URL: <http://web.icf.ro/rrech/>

▼ (2010) ▼

64. GHIJU S., PUTZ M.V., CHIRIAC A. "On Specific Vs. Non-Specific Enzymic Inter-Activity in Acute Myocardial Infarction", *Digest Journal of Nanomaterials and Biostructures*, 5(1) (2010) 567-574.
♣ URL: http://www.chalcogen.infim.ro/567_Giju.pdf
65. PUTZ M.V. "Chemical Hardness: Quantum Observable?", *Studia Universitatis Babeş-Bolyai - Seria Chimia*, 55 (2) –Tom I (2010) 47 – 50.
♣ URL: <http://chem.ubbcluj.ro/~studiachemia/docs/Chimia22010t1.pdf>