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*Universitatea de Vest din Timișoara*  
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## **FIȘA DE VERIFICARE PENTRU ÎNDEPLINIREA STANDARDELOR MINIMALE**

PENTRU  
**ABILITARE**  
 ÎN DOMENIUL  
 ~**CHIMIE**~\*

### SYNOPSIS

<b>Criteriul de Abilitare</b>	<b>Standard Minimal</b>	<b>Realizare Mai 2012</b>
S	$\geq 0.4$	1.083
C	$\geq 5$	5.8
P	$\geq 12$	35.647

\* Realizată în 2 Mai/2012 conform standardelor UEFISCDI-CNATDCU/2012:  
[http://www.uefiscdi.gov.ro/UserFiles/File/CENAPOSS/istoric\\_Scor\\_Relativ\\_Influenta.xls](http://www.uefiscdi.gov.ro/UserFiles/File/CENAPOSS/istoric_Scor_Relativ_Influenta.xls)

**I. Verificarea îndeplinirii standardului  $S_{med}$** 

Numărul Publicației	Referința bibliografică	$s_i$	$n_i$	$s_i/n_i$
1	KLEINERT H., PELSTER A., <b>PUTZ M.V.</b> "Variational Perturbation Theory for Markov Processes", <i>Physical Review E</i> , 65(6) (2002) 066128/1-7 (ISSN:1539-3755)	1.43073	3	0.47691
2	<b>PUTZ M.V.</b> "Electronic Density from Structure Factor Determination in Small Deformed Crystals", <i>International Journal of Quantum Chemistry</i> , 94(4) (2003) 222-231 (ISSN: 0020-7608)	0.71081	1	0.71081
3	<b>PUTZ M.V.</b> , RUSSO N., SICILIA E. "On the Application of the HSAB Principle through the Use of Improved Computational Schemes for Chemical Hardness Evaluation", <i>Journal of Computational Chemistry</i> , 25(7) (2004) 994-1003 (ISSN: 0192-8651)	5.55090	3	1.8503
4	<b>PUTZ M.V.</b> "Markovian Approach of the Electron Localization Functions", <i>International Journal of Quantum Chemistry</i> , 105(1) (2005) 1-11 (ISSN: 0020-7608)	0.71081	1	0.71081
5	<b>PUTZ M.V.</b> "Systematic Formulation for Electronegativity and Hardness and Their Atomic Scales within Density Functional Softness Theory", <i>International Journal of Quantum Chemistry</i> , 106(2) (2006) 361-389 (ISSN: 0020-7608)	0.71081	1	0.71081
6	<b>PUTZ M.V.</b> "Semiclassical Electronegativity and Chemical Hardness", <i>Journal of Theoretical and Computational Chemistry</i> , 6(1) (2007) 33-47 (ISSN: 0219-6336)	0.70060	1	0.7006
7	<b>PUTZ M.V.</b> , LACRĂMĂ A.-M. "Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology", <i>International Journal of Molecular Sciences</i> , 8(5) (2007) 363-391 (ISSN: 1422-0067)	1.60778	2	0.80389
8	<b>PUTZ M.V.</b> "Maximum Hardness Index of Quantum Acid-Base Bonding", <i>MATCH Communications in Mathematical and in Computer Chemistry</i> , 60(3) (2008) 845-868	2.20659	1	2.20659

	(ISSN: 0340-6253)			
9	<b>PUTZ M.V.</b> "Electronegativity: Quantum Observable", <i>International Journal of Quantum Chemistry</i> , 109 (4) (2009) 733-738 (ISSN: 0020-7608)	0.71081	1	0.71081
10	SELEGEAN M., <b>PUTZ M.V.</b> , RUGEA T. "Effect of the Polysaccharide Extract from the Edible Mushroom <i>Pleurotus Ostreatus</i> against Infectious Bursal Disease Virus", <i>International Journal of Molecular Sciences</i> , 10(8) (2009) 3616-3634 (ISSN: 1422-0067)	1.60778	3	0.535927
11	CHICU S.A., <b>PUTZ M.V.</b> "Köln-Timișoara Molecular Activity Combined Models toward Interspecies Toxicity Assessment", <i>International Journal of Molecular Sciences</i> , 10(10) (2009) 4474-4497 (ISSN: 1422-0067)	1.60778	2	0.80389
12	LASZLO T., <b>PUTZ M.V.</b> "On Electronegativity and Chemical Hardness Relationships with Aromaticity", <i>Journal of Mathematical Chemistry</i> , 47(1) (2010) 487-495 (ISSN: 0259-9791)	1.23054	2	0.61527
13	<b>PUTZ M.V.</b> "On Absolute Aromaticity within Electronegativity and Chemical Hardness Reactivity Pictures", <i>MATCH Communications in Mathematical and in Computer Chemistry</i> , 64(2) (2010) 391-418 (ISSN: 0340-6253)	2.20659	1	2.20659
14	<b>PUTZ M.V.</b> "Compactness Aromaticity of Atoms in Molecules", <i>International Journal of Molecular Sciences</i> , 11(4) (2010) 1269-1310 (ISSN: 1422-0067)	1.60778	1	1.60778
15	<b>PUTZ M.V.</b> "On Heisenberg Uncertainty Relationship, Its Extension, and the Quantum Issue of Wave-Particle Duality", <i>International Journal of Molecular Sciences</i> , 11(10) (2010) 4124-4139 (ISSN: 1422-0067)	1.60778	1	1.60778
16	<b>PUTZ M.V.</b> "The Bondons: The Quantum Particles of the Chemical Bond", <i>International Journal of Molecular Sciences</i> , 11(11) (2010) 4227-4256 (ISSN: 1422-0067)	1.60778	1	1.60778
17	<b>PUTZ M.V.</b> "On Reducible Character of Haldane-Radić Enzyme Kinetics to Conventional	0.82167	1	0.82167

	and Logistic Michaelis-Menten Models", <i>Molecules</i> , 16(4) (2011) 3128-3145 (ISSN: 1420-3049)			
18	PUTZ M.V. "Residual-QSAR. Implications for Genotoxic Carcinogenesis", <i>Chemistry Central Journal</i> , 5 (2011) 29 (11 pages) (ISSN: 1752-153X)	1.72754	1	1.72754
19	ORI O., CATALDO F., PUTZ M.V. "Topological Anisotropy of Stone-Wales Waves in Graphenic Fragments", <i>International Journal of Molecular Sciences</i> , 12(11) (2011) 7934-7949 (ISSN: 1422-0067)	1.60778	3	0.535927
20	MATITO E., PUTZ M.V. "New Link between Conceptual Density Functional Theory and Electron Delocalization", <i>Journal of Physical Chemistry A</i> , 115 (45) (2011) 12459-12462 (ISSN: 1089-5639)	1.43336	2	0.71668
Total		$\sum_{i=1}^{N_s} \frac{S_i}{n_i} =$		21.6684
N <sub>s</sub> = 20		S <sub>med</sub> = 1.08342		

NOTĂ: MINIM CERUT PENTRU ABILITARE, S<sub>med</sub>=0.4

## II. Verificarea îndeplinirii standardului C<sub>med</sub>

(conform WEB of Knowledge – Search Author “Putz MV”)

Numărul publicației care citează	Referința bibliografică a publicației care citează	S <sub>k</sub>
<b>(i)</b> <b>Title: New link between conceptual density functional theory and electron delocalization</b> Author(s): Matito, E.; Putz M.V. Source: J. PHYS. CHEM. A Volume: 115 Issue: 45 Pages: 12459–12462 DOI: 10.1021/jp200731d Published: MAY 2011		
1.	Title: Influence of electron correlation and degeneracy on the Fukui matrix and extension of frontier molecular orbital theory to correlated quantum chemical methods Author(s): Bultinck Patrick, Van Neck Dimitri, Acke Guillaume, Ayers Paul W. Source: PHYS. CHEM. CHEM. PHYS. Volume: 14 Issue: 7 Pages: 2408-2416 DOI: 10.1039/C2CP22543C Published: JAN 16, 2012 (ISSN: 1463-9076)	2.22800
<b>(ii)</b> <b>Title: On absolute aromaticity within electronegativity and chemical hardness reactivity pictures</b> Author(s): Putz Mihai V. Source: MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY Volume: 64 Issue: 2 Pages: 391-418 Published: 2010		
2.	Title: On the electrophilic character of molecules through its relation with electronegativity and chemical hardness Author(s): Nazmul Islam and Dulal C. Ghosh Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 2 Pages: 2160-2175 DOI: 10.3390/ijms13022160 Published: FEB 2012 (ISSN: 1422-0067)	1.60778
3.	Title: Chemical applications of neural networks: aromaticity of pyrimidine derivatives Author(s): Alonso Mercedes; Miranda Carlos; Martin Nazario; et al. Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 13 Issue: 46 Pages: 20564-20574 DOI: 10.1039/c1cp22001b Published: 2011 (ISSN: 1463-9076)	2.22800
4.	Title: Should negative electron affinities be used for evaluating	2.22800

	<p>the chemical hardness?                  Author(s): Cardenas Carlos; Ayers Paul; De Proft Frank; et al.                  Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 13 Issue: 6 Pages: 2285-2293 DOI: 10.1039/c0cp01785j Published: 2011 (ISSN: 1463-9076)</p>	
5.	<p>Title: Contributions from orbital-orbital interactions to nucleus-independent chemical shifts and their relation with aromaticity or antiaromaticity of conjugated molecules                  Author(s): Perez-Juste Ignacio; Mandado Marcos; Carballeira Luis                  Source: CHEMICAL PHYSICS LETTERS Volume: 491 Issue: 4-6 Pages: 224-229 DOI: 10.1016/j.cplett.2010.03.077 Published: MAY 17 2010 (ISSN: 0009-2614)</p>	1.27745
<p><b>(iii)</b>                  Title: <b>On electronegativity and chemical hardness relationships with aromaticity</b>                  Author(s): Tarko Laszlo ; Putz Mihai V.                  Source: JOURNAL OF MATHEMATICAL CHEMISTRY Volume: 47 Issue: 1 Pages: 487-495 DOI: 10.1007/s10910-009-9585-6 Published: JAN 2010</p>		
6.	<p>Title: On the electrophilic character of molecules through its relation with electronegativity and chemical hardness                  Author(s): Nazmul Islam and Dulal C. Ghosh                  Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 2 Pages: 2160-2175 DOI: 10.3390/ijms13022160 Published: FEB 2012 (ISSN: 1422-0067)</p>	1.60778
7.	<p>Title: Chemical applications of neural networks: aromaticity of pyrimidine derivatives                  Author(s): Alonso Mercedes; Miranda Carlos; Martin Nazario; et al.                  Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 13 Issue: 46 Pages: 20564-20574 DOI: 10.1039/c1cp22001b Published: 2011 (ISSN: 1463-9076)</p>	2.22800
8.	<p>Title: Contributions from orbital-orbital interactions to nucleus-independent chemical shifts and their relation with aromaticity or antiaromaticity of conjugated molecules                  Author(s): Perez-Juste Ignacio; Mandado Marcos; Carballeira Luis                  Source: CHEMICAL PHYSICS LETTERS Volume: 491 Issue: 4-6 Pages: 224-229 DOI:10.1016/j.cplett.2010.03.077 Published: MAY 2010 (ISSN: 0009-2614)</p>	1.27745
<p><b>(iv)</b>                  Title: <b>Koln-Timisoara molecular activity combined models toward interspecies</b></p>		

<b>toxicity assessment</b>		
Author(s): Chicu Sergiu A. ; Putz Mihai V. Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 10 Issue: 10 Pages: 4474-4497 DOI: 10.3390/ijms10104474 Published: OCT 2009		
9.	Title: Multivariate evaluation of the correlation between retention data and molecular descriptors of antiepileptic hydantoin analogs Author(s): Tatjana Djaković-Sekulić, Adam Smoliński, Nemanja Trišović, Gordana Ušćumlić Source: JOURNAL OF CHEMOMETRICS, Volume: 26, Issue: 3-4, Pages: 95-107; DOI: DOI: 10.1002/cem.1421, Published: MAR-APR 2012 (ISSN: 0886-9383)	1.30036
10.	Title: High-Dimensional Descriptor Selection and Computational QSAR Modeling for Antitumor Activity of ARC-111 Analogues Based on Support Vector Regression (SVR) Author(s): Zhou, Wei; Dai, Zhijun; Chen, Yuan; Wang, Haiyan; Yuan, Zheming Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 1 Pages: 1161-1172 DOI: 10.3390/ijms13011161 Published: JAN 2012 (ISSN: 1422-0067)	1.60778
11.	Title: QSAR Study and Molecular Design of Open-Chain Enaminones as Anticonvulsant Agents Author(s): Garro Martinez Juan C.; Duchowicz Pablo R.; Estrada Mario R.; et al. Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 12 Issue: 12 Pages: 9354-9368 DOI: 10.3390/ijms12129354 Published: DEC 2011 (ISSN: 1422-0067)	1.60778
12.	Title: Hydractinia echinata test system. II. SAR toxicity study of some anilide derivatives of Naphthol-AS type Author(s): Chicu Sergiu Adrian; Funar-Timofei Simona; Simu Georgeta-Maria Source: CHEMOSPHERE Volume: 82 Issue: 11 Pages: 1578-1582 DOI: 10.1016/j.chemosphere.2010.11.057 Published: MAR 2011 (ISSN: 0045-6535)	1.48495
13.	Title: QSAR And Pharmacophore Modeling Of 4-Arylthieno [3, 2-D] Pyrimidine Derivatives Against Adenosine Receptor Of Parkinson's Disease Author(s): Ahmed Shiek S. S. J.; Ahameethunisa A.; Santosh Winkins Source: JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY Volume: 9 Issue: 6	0.70060

	Pages: 975-991 DOI: 10.1142/S0219633610006146 Published: DEC 2010 (ISSN: 0219-6336)	
14.	Title: Replacement Method and Enhanced Replacement Method Versus the Genetic Algorithm Approach for the Selection of Molecular Descriptors in QSPR/QSAR Theories Author(s): Mercader, Andrew G.; Duchowicz, Pablo R.; Fernandez, Francisco M.; Castro, Eduardo A. Source: JOURNAL OF CHEMICAL INFORMATION AND MODELING Volume: 50 Issue: 9 Pages: 1542-1548 DOI: 10.1021/ci100103r Published: SEP 2010 (ISSN: 1549-9596)	2.38623
15.	Title: Amino acid profiles and quantitative structure-property relationships for malts and beers Author(s): Pomilio, Alicia B.; Duchowicz, Pablo R.; Giraudo, Miguel A.; Castro, Eduardo A. Source: FOOD RESEARCH INTERNATIONAL Volume: 43 Issue: 4 Pages: 965-971 Published: MAY 2010 (ISSN: 0963-9969)	2.47386
<p>(v)</p> <p>Title: <b>Electronegativity: quantum observable</b> Author(s): Putz Mihai V. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 109 Issue: 4 Pages: 733-738 DOI: 10.1002/qua.21957 Published: MAR 15 2009</p>		
16.	Title: On the electrophilic character of molecules through its relation with electronegativity and chemical hardness Author(s): Nazmul Islam and Dulal C. Ghosh Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 2 Pages: 2160-2175 DOI: 10.3390/ijms13022160 Published: FEB 2012 (ISSN: 1422-0067)	1.60778
17.	Title: Spectroscopic evaluation of the global hardness of the atoms Author(s): Islam Nazmul; Ghosh Dulal C. Source: MOLECULAR PHYSICS Volume: 109 Issue: 12 Pages: 1533-1544 DOI: 10.1080/00268976.2011.569513 Published: 2011 (ISSN: 0026-8976)	0.94719
18.	Title: Computation of the internuclear distances of some heteronuclear diatomic molecules in terms of the revised electronegativity scale of Gordy Author(s): Chakraborty T.; Ghosh D. C. Source: EUROPEAN PHYSICAL JOURNAL D Volume: 59 Issue: 2 Pages: 183-192 DOI: 10.1140/epjd/e2010-00159-7 Published: AUG 2010 (ISSN: 1434-6060)	1.04610



19.	Title: Computation of the atomic radii through the conjoint action of the effective nuclear charge and the ionization energy Author(s): Chakraborty Tanmoy; Gazi Kamarujjaman; Ghosh Dulal C. Source: MOLECULAR PHYSICS Volume: 108 Issue: 16 Pages: 2081-2092 DOI: 10.1080/00268976.2010.505208 Published: 2010 (ISSN: 0026-8976)	0.94719
20.	Title: The electronegativity scale of Allred and Rochow: revisited Author(s): Ghosh Dulal Chandra; Chakraborty Tanmoy; Mandal Bhabatosh Source: THEORETICAL CHEMISTRY ACCOUNTS Volume: 124 Issue: 3-4 Pages: 295-301 DOI: 10.1007/s00214-009-0610-4 Published: OCT 2009 (ISSN: 1432-881X)	1.36858
(vi)		
<p>Title: <b>Quantum-SAR extension of the Spectral-SAR Algorithm. Application to polyphenolic anticancer bioactivity</b></p> <p>Author(s): Putz Mihai V. ; Putz Ana-Maria ; Lazea Marius ; et al.</p> <p>Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 10 Issue: 3 Pages: 1193-1214 DOI: 10.3390/ijms10031193 Published: MAR 2009</p>		
21.	Title: Multivariate evaluation of the correlation between retention data and molecular descriptors of antiepileptic hydantoin analogs Author(s): Tatjana Djaković-Sekulić, Adam Smoliński, Nemanja Trišović, Gordana Ušćumlić Source: JOURNAL OF CHEMOMETRICS, Volume: 26, Issue: 3-4, Pages: 95-107; DOI: DOI: 10.1002/cem.1421, Published: MAR-APR 2012 (ISSN: 0886-9383)	1.30036
22.	Title: High-Dimensional Descriptor Selection and Computational QSAR Modeling for Antitumor Activity of ARC-111 Analogues Based on Support Vector Regression (SVR) Author(s): Zhou, Wei; Dai, Zhijun; Chen, Yuan; Wang, Haiyan; Yuan, Zheming Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 1 Pages: 1161-1172 DOI: 10.3390/ijms13011161 Published: JAN 2012 (ISSN: 1422-0067)	1.60778
23.	Title: QSAR And Pharmacophore Modeling Of 4-Arylthieno [3, 2-D] Pyrimidine Derivatives Against Adenosine Receptor Of Parkinson's Disease Author(s): Ahmed Shiek S. S. J.; Ahameethunisa A.; Santosh Winkins	0.70060

	Source: JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY Volume: 9 Issue: 6 Pages: 975-991 DOI: 10.1142/S0219633610006146 Published: DEC 2010 (ISSN: 0219-6336)	
24.	Title: Replacement Method and Enhanced Replacement Method Versus the Genetic Algorithm Approach for the Selection of Molecular Descriptors in QSPR/QSAR Theories Author(s): Mercader, Andrew G.; Duchowicz, Pablo R.; Fernandez, Francisco M.; Castro, Eduardo A. Source: JOURNAL OF CHEMICAL INFORMATION AND MODELING Volume: 50 Issue: 9 Pages: 1542-1548 DOI: 10.1021/ci100103r Published: SEP 2010 (ISSN: 1549-9596)	2.38623
25.	Title: Amino acid profiles and quantitative structure-property relationships for malts and beers Author(s): Pomilio, Alicia B.; Duchowicz, Pablo R.; Giraudo, Miguel A.; Castro, Eduardo A. Source: FOOD RESEARCH INTERNATIONAL Volume: 43 Issue: 4 Pages: 965-971 Published: MAY 2010 (ISSN: 0963-9969)	2.47386
26.	Title: Quantitative Structure-Property Relationships On Dissolvability Of Pcd/Fs Using Quantum Chemical Descriptors And Partial Least Squares Author(s): Lu, Gui-Ning; Tao, Xue-Qin; Dang, Zhi; Huang, Weilin; Li, Zhong Source: JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY Volume: 9 Supplement: 1 Pages: 9-22 DOI: 10.1142/S0219633610005608 Published: 2010 (ISSN: 0219-6336)	0.70060
27.	Title: QSAR analysis on Spodoptera litura antifeedant activities for flavone derivatives Author(s): Duchowicz, Pablo R.; Goodarzi, Mohammad; Ocsachoque, Marco A.; Romanelli, Gustavo P.; Ortiz, Erlinda del V.; Autino, Juan. C.; Bennardi, Daniel O.; Ruiz, Diego M.; Castro, Eduardo A. Source: SCIENCE OF THE TOTAL ENVIRONMENT Volume: 408 Issue: 2 Pages: 277-285 DOI: 10.1016/j.scitotenv.2009.09.041 Published: DEC 20 2009 (ISSN: 0048-9697)	1.61037
28.	Title: Classification of 5-HT(1A) Receptor Ligands on the Basis of Their Binding Affinities by Using PSO-Adaboost-SVM Author(s): Cheng, Zhengjun; Zhang, Yuntao; Zhou, Changhong; Zhang, Wenjun; Gao, Shibo	1.60778

	Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 10 Issue: 8 Pages: 3316-3337 DOI: 10.3390/ijms10083316 Published: AUG 2009 (ISSN: 1422-0067)	
<p><b>(vii)</b>  <b>Title: Density functionals of chemical bonding</b>                  Author(s): Putz Mihai V.                  Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 9 Issue: 6 Pages: 1050-1095 DOI: 10.3390/ijms9061050 Published: JUN 2008</p>		
29.	Title: Topological (ELF and rho) study of the unusually long N-O bond in (CF <sub>3</sub> ) <sub>2</sub> NO-NO Author(s): Berski Slawomir; Gordon Agnieszka J. Source: CHEMICAL PHYSICS LETTERS Volume: 525-26 Pages: 24-31 DOI: 10.1016/j.cplett.2011.12.035 Published: FEB 16 2012 (ISSN: 0009-2614)	1.27745
30.	Title: Dechlorination pathways of diverse chlorinated aromatic pollutants conducted by Dehalococcoides sp strain CBDB1 Author(s): Lu Gui-Ning; Tao Xue-Qin; Huang Weilin; et al. Source: SCIENCE OF THE TOTAL ENVIRONMENT Volume: 408 Issue: 12 Pages: 2549-2554, DOI: 10.1016/j.scitotenv.2010.03.003 Published: MAY 15 2010 (ISSN: 0048-9697)	1.61037
<p><b>(viii)</b>  <b>Title: Maximum hardness index of quantum acid-base bonding</b>                  Author(s): Putz Mihai V.                  Source: MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY Volume: 60 Issue: 3 Pages: 845-868 Published: 2008</p>		
31.	Title: Should negative electron affinities be used for evaluating the chemical hardness? Author(s): Cardenas, Carlos; Ayers, Paul; De Proft, Frank; Tozer, David J.; Geerlings, Paul Source: PHYSICAL CHEMISTRY CHEMICAL PHYSICS Volume: 13 Issue: 6 Pages: 2285-2293 DOI: 10.1039/c0cp01785j Published: 2011 (ISSN: 1463-9076)	2.22800
32.	Title: Dechlorination pathways of diverse chlorinated aromatic pollutants conducted by Dehalococcoides sp strain CBDB1 Author(s): Lu, Gui-Ning; Tao, Xue-Qin; Huang, Weilin; Dang, Zhi; Li, Zhong; Liu, Cong-Qiang Source: SCIENCE OF THE TOTAL ENVIRONMENT Volume: 408 Issue: 12 Pages: 2549-2554 DOI: 10.1016/j.scitotenv.2010.03.003 Published: MAY 15 2010 (ISSN: 0048-9697)	1.61037
<b>(ix)</b>		

<p style="text-align: center;"><b>Title: Introducing logistic enzyme kinetics</b>                  Author(s): Putz M. V. ; Lacrama A. M. ; Ostafe V.                  Source: JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS Volume: 9 Issue: 9 Pages: 2910-2916 Published: SEP 2007</p>		
33.	<p>Title: Explicit reformulations of time-dependent solution for a Michaelis-Menten enzyme reaction model                  Author(s): Golicnik Marko                  Source: ANALYTICAL BIOCHEMISTRY Volume: 406 Issue: 1 Pages: 94-96 DOI: 10.1016/j.ab.2010.06.041                  Published: NOV 1 2010                  (ISSN: 0003-2697)</p>	2.01038
34.	<p>Title: Exact and effective pair-wise potential for protein-ligand interactions obtained from a semiempirical energy partition                  Author(s): Carvalho Alexandre R. F.; Puga Andre T.; Melo Andre                  Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 9 Issue: 9 Pages: 1652-1664 DOI: 10.3390/ijms9091652 Published: SEP 2008                  (ISSN: 1422-0067)</p>	1.60778
<p><b>(x)</b>  <b>Title: A Spectral-SAR model for the anionic-cationic interaction in ionic liquids: Application to Vibrio fischeri ecotoxicity</b>                  Author(s): Lacrama Ana-Maria ; Putz Mihai V. ; Ostafe Vasile                  Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 8 Issue: 8 Pages: 842-863 DOI: 10.3390/i8080842 Published: AUG 2007</p>		
35.	<p>Title: Multivariate evaluation of the correlation between retention data and molecular descriptors of antiepileptic hydantoin analogs                  Author(s): Tatjana Djaković-Sekulić, Adam Smoliński, Nemanja Trišović, Gordana Ušćumlić                  Source: JOURNAL OF CHEMOMETRICS, Volume: 26, Issue: 3-4, Pages: 95-107; DOI: DOI: 10.1002/cem.1421, Published: MAR-APR 2012                  (ISSN: 0886-9383)</p>	1.30036
36.	<p>Title: Toxicity assessment of various ionic liquid families towards Vibrio fischeri marine bacteria                  Author(s): Ventura Sonia P. M.; Marques Carolina S.; Rosatella Andreia A.; et al.                  Source: ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY Volume: 76 Issue: 1 Pages: 162-168                  DOI: 10.1016/j.ecoenv.2011.10.006 Published: FEB 2012                  (ISSN: 0147-6513)</p>	1.10535
37.	<p>Title: High-Dimensional Descriptor Selection and Computational QSAR Modeling for Antitumor Activity of ARC-111 Analogues Based on Support Vector Regression (SVR)</p>	1.60778

	Author(s): Zhou, Wei; Dai, Zhijun; Chen, Yuan; Wang, Haiyan; Yuan, Zheming Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 1 Pages: 1161-1172 DOI: 10.3390/ijms13011161 Published: JAN 2012 (ISSN: 1422-0067)	
38.	Title: QSAR Study and Molecular Design of Open-Chain Enaminones as Anticonvulsant Agents Author(s): Garro Martinez, J.C.; Duchowicz, P.R.; Estrada, M.R.; Zamarbide, G.N.; Castro, E.A. Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 12 Issue: 12 Pages: 9354-9368 DOI: 10.3390/ijms12129354 Published: DEC 2011 (ISSN: 1422-0067)	1.60778
39.	Title: Development of a novel mathematical model using a group contribution method for prediction of ionic liquid toxicities Author(s): Hossain M. Ismail; Samir Brahim Belhaouari; El-Harbawi Mohanad; et al. Source: CHEMOSPHERE Volume: 85 Issue: 6 Pages: 990-994 DOI: 10.1016/j.chemosphere.2011.06.088 Published: OCT 2011 (ISSN: 0045-6535)	1.48495
40.	Title: Design of ionic liquids: an ecotoxicity ( <i>Vibrio fischeri</i> ) discrimination approach Author(s): Alvarez-Guerra Manuel; Irabien Angel Source: GREEN CHEMISTRY Volume: 13 Issue: 6 Pages: 1507-1516 DOI: 10.1039/c0gc00921k Published: 2011 (ISSN: 1463-9262)	4.40719
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92.	Title: On the electrophilic character of molecules through its relation with electronegativity and chemical hardness Author(s): Nazmul Islam and Dulal C. Ghosh Source: INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES Volume: 13 Issue: 2 Pages: 2160-2175 DOI: 10.3390/ijms13022160 Published: FEB 2012 (ISSN: 1422-0067)	1.60778
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103.	Title: The characteristic boundary radii of atoms Author(s): Zhang, MB; Zhao, DX; Yang, ZZ Source: JOURNAL OF THEORETICAL & COMPUTATIONAL CHEMISTRY Volume: 4 Issue: 1 Pages: 281-288 DOI: 10.1142/S0219633605001568 Published: MAR 2005 (ISSN: 0219-6336)	0.70060
104.	Title: Hammett equation and generalized Pauling's electronegativity equation Author(s): Liu, L.; Fu, Y.; Liu, R.; Li, R.-Q.; Guo, Q.-X. Source: JOURNAL OF CHEMICAL INFORMATION AND COMPUTER SCIENCES (transformat în J. CHEM. INF. MODEL) 44 (2), pp. 652-657, DOI: 10.1021/ci0342122 (ISSN 1549-9596)	2.38623
<p><b>(xix)</b>  <b>Title: Variational perturbation theory for Markov processes</b>                  Author(s): Kleinert H ; Pelster A ; Putz MV                  Source: PHYSICAL REVIEW E Volume: 65 Issue: 6 Article Number: 066128                  DOI: 10.1103/PhysRevE.65.066128 Part: Part 2 Published: JUN 2002</p>		
105.	Title: Variational calculation of the limit cycle and its frequency in a two-neuron model with delay Author(s): Brandt Sebastian F.; Pelster Axel; Wessel Ralf Source: PHYSICAL REVIEW E Volume: 74 Issue: 3, Article Number: 036201 DOI: 10.1103/PhysRevE.74.036201 Part: Part 2, Published: SEP 2006 (ISSN:1539-3755)	1.43073
106.	Title: Large-D expansion from variational perturbation theory Author(s): Brandt SF; Pelster A Source: JOURNAL OF MATHEMATICAL PHYSICS Volume: 46 Issue: 11 Article Number: 112105 DOI: 10.1063/1.2116247 Published: NOV 2005 (ISSN: 0022-2488)	0.83539
107.	Title: Variational perturbation theory for Fokker-Planck equation with nonlinear drift Author(s): Dreger J; Pelster A; Hamprecht B Source: EUROPEAN PHYSICAL JOURNAL B Volume: 45 Issue: 3 Pages: 355-368 DOI: 10.1140/epjb/e2005-00195-2 Published: JUN 2005 (ISSN: 1434-6028)	1.26912
108.	Title: Diagrammatic computation of the random flight motion Author(s): Hatamian ST	1.20092

	Source: PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS Volume: 341 Pages: 401-432 DOI: 10.1016/j.physa.2004.05.068 Published: OCT 1 2004 (ISSN: 0378-4371)	
<p>(xx)</p> <p>Book Title: <b>ABSOLUTE AND CHEMICAL ELECTRONEGATIVITY AND HARDNESS</b>, Author(s): Putz Mihai V. Source: Nova Publishers Inc., New York, USA, pag. 95; ISBN (printed edition): 978-1-60456-937-7; ISBN (e-book): 978-1-60741-207-6; Published: 2008</p> <p><b>NOTĂ:</b> citările aferente se reperiază în ISI Web of Knowledge prin deschiderea oricărui document de mai jos (de exemplu prin Search Title "oricare titlu complet de mai jos") urmat de deschiderea secțiunii &lt;Cited References&gt; cu indentificarea in lista de referinte ca:</p> <p>Title: [not available] Author(s): PUTZ MV Source: ABSOLUTE CHEM ELECTR Published: <b>2008</b> Times Cited: <u>15</u> (from All Databases)</p> <p><i>Click pe numărul de citări și acestea se vor reda după cum urmează (titlul complet al citării este prezent în full-text al articolelor originale care-l citează)</i></p>		
109.	Title: A New Radial Dependent Electrostatic Algorithm for the Evaluation of the Electrophilicity Indices of the Atoms Author(s): Islam Nazmul; Ghosh Dulal C. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 111 Issue: 14 Pages: 3556-3564 DOI: 10.1002/qua.22861 Published: NOV 15 2011 (ISSN: 0020-7608)	0.71081
110.	Title: Charge transfer associated with the physical process of hardness equalization and the chemical event of the molecule formation and the dipole moments Author(s): Ghosh, D.C., Islam, N. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 111 Issue: 12 Pages: 2811-2819 DOI: 10.1002/qua.22653 Published: OCT 2011 (ISSN: 0020-7608)	0.71081
111.	Title: Determination of some descriptors of the real world working on the fundamental identity of the basic concept and the origin of the electronegativity and the global hardness of atoms, part 1: Evaluation of internuclear bond distance of some heteronuclear diatomics Author(s): Ghosh, D.C., Islam, N. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 111 Issue: 9 Pages: 1942-1949 DOI: 10.1002/qua.22500 Published: AUG 5 2011 (ISSN: 0020-7608)	0.71081

112.	Title: Whether there is a hardness equalization principle analogous to the electronegativity equalization principle-A quest Author(s): Ghosh, D.C., Islam, N. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 111 Issue: 9 Pages: 1961-1969 DOI: 10.1002/qua.22508 Published: AUG 5 2011 (ISSN: 0020-7608)	0.71081
113.	Title: A new algorithm for the evaluation of equilibrium inter nuclear bond distance of heteronuclear diatomic molecules based on the hardness equalization principle Author(s): Islam, N., Ghosh, D.C. Source: EUROPEAN PHYSICAL JOURNAL D Volume: 61 Issue: 2 Pages: 341-348 DOI: 10.1140/epjd/e2010-10058-6 Published: JAN 2011 (ISSN: 1434-6060)	1.04610
114.	Title: Whether electronegativity and hardness are manifest two different descriptors of the one and the same fundamental property of atoms-A quest Author(s): Ghosh, D.C., Islam, N. Source: INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY Volume: 111 Issue: 1 Pages: 40-51 DOI: 10.1002/qua.22415 Published: JAN 2011 (ISSN: 0020-7608)	0.71081
115.	Title: A new algorithm for the evaluation of the global hardness of polyatomic molecules Author(s): Islam, N., Chandra Ghosh, D. Source: MOLECULAR PHYSICS Volume: 109 Issue: 6 Pages: 917-931 DOI: 10.1080/00268976.2011.558856 Published: 2011 (ISSN: 0026-8976)	0.94719
116.	Title: Dechlorination pathways of diverse chlorinated aromatic pollutants conducted by Dehalococcoides sp. strain CBDB1 Author(s): Lu, G.-N., Tao, X.-Q., Huang, W., Dang, Z., Li, Z., Liu, C.-Q. Source: SCIENCE OF THE TOTAL ENVIRONMENT Volume: 408 Issue: 12 Pages: 2549-2554 DOI: 10.1016/j.scitotenv.2010.03.003 Published: MAY 15 2010 (ISSN: 0048-9697)	1.61037
$N_C =$ 20		$C_{med} =$ 5.8

NOTĂ: MINIM CERUT PENTRU ABILITARE,  $C_{med} = 5$

**III. Verificarea îndeplinirii standardului P**

Numărul Publicației	Referința bibliografică	S <sub>i</sub>	P <sub>i</sub>	S <sub>i</sub> /P <sub>i</sub>
1	<b>PUTZ M.V., RUSSO N., SICILIA E.</b> "Atomic Radii Scale and Related Size Properties from Density Functional Electronegativity Formulation", <i>Journal of Physical Chemistry A</i> , 107(28) (2003) 5461-5465 (ISSN: 1089-5639)	1.43336	2	0.71668
2	<b>PUTZ M.V.</b> "Electronic Density from Structure Factor Determination in Small Deformed Crystals", <i>International Journal of Quantum Chemistry</i> , 94(4) (2003) 222-231 (ISSN: 0020-7608)	0.71081	1	0.71081
3	<b>PUTZ M.V., RUSSO N., SICILIA E.</b> "On the Application of the HSAB Principle through the Use of Improved Computational Schemes for Chemical Hardness Evaluation", <i>Journal of Computational Chemistry</i> , 25(7) (2004) 994-1003 (ISSN: 0192-8651)	5.55090	2	2.77545
4	<b>PUTZ M.V., RUSSO N., SICILIA E.</b> "About the Mulliken Electronegativity in DFT", <i>Theoretical Chemistry Accounts</i> , 114(1-3) (2005) 38-45 (ISSN: 1432-881X)	1.36858	2	0.68429
5	<b>PUTZ M.V.</b> "Markovian Approach of the Electron Localization Functions", <i>International Journal of Quantum Chemistry</i> , 105(1) (2005) 1-11 (ISSN: 0020-7608)	0.71081	1	0.71081
6	<b>PUTZ M.V.</b> "Systematic Formulation for Electronegativity and Hardness and Their Atomic Scales within Density Functional Softness Theory", <i>International Journal of Quantum Chemistry</i> , 106(2) (2006) 361-389 (ISSN: 0020-7608)	0.71081	1	0.71081
7	<b>PUTZ M.V., LACRĂMĂ A.-M., OSTAFE V.</b> "Full Analytic Progress Curves of the Enzymic Reactions in Vitro", <i>International Journal of</i>	1.60778	1	1.60778

	<i>Molecular Sciences</i> , 7(11) (2006) 469-484 (ISSN: 1422-0067)			
8	DUDA-SEIMAN C., DUDA-SEIMAN D., DRAGOȘ D., MEDELEANU M., CAREJA V., <b>PUTZ M.V.</b> , LACRĂMĂ A.-M., CHIRIAC A., NUȚIU R., CIUBOTARIU D. "Design of Anti-HIV Ligands by Means of Minimal Topological Difference (MTD) Method", <i>International Journal of Molecular Sciences</i> , 7(11) (2006) 537-555 (ISSN: 1422-0067)	1.60778	2	0.80389
9	<b>PUTZ M.V.</b> "Semiclassical Electronegativity and Chemical Hardness", <i>Journal of Theoretical and Computational Chemistry</i> , 6(1) (2007) 33-47 (ISSN: 0219-6336)	0.70060	1	0.7006
10	<b>PUTZ M.V.</b> , LACRĂMĂ A.-M. "Introducing Spectral Structure Activity Relationship (S-SAR) Analysis. Application to Ecotoxicology", <i>International Journal of Molecular Sciences</i> , 8(5) (2007) 363-391 (ISSN: 1422-0067)	1.60778	1	1.60778
11	LACRĂMĂ A.-M., <b>PUTZ M.V.</b> , OSTAFE V. "A Spectral-SAR Model for the Anionic-Cationic Interaction in Ionic Liquids: Application to <i>Vibrio fischeri</i> Ecotoxicity", <i>International Journal of Molecular Sciences</i> , 8(8) (2007) 842-863 (ISSN: 1422-0067)	1.60778	2	0.80389
12	<b>PUTZ M.V.</b> "Maximum Hardness Index of Quantum Acid-Base Bonding", <i>MATCH Communications in Mathematical and in Computer Chemistry</i> , 60(3) (2008) 845-868 (ISSN: 0340-6253)	2.20659	1	2.20659
13	<b>PUTZ M.V.</b> "Electronegativity: Quantum Observable", <i>International Journal of Quantum Chemistry</i> , 109 (4) (2009) 733-738 (ISSN: 0020-7608)	0.71081	1	0.71081

14	<b>PUTZ M.V.</b> , PUTZ A.M., LAZEA M., IENCIU L., CHIRIAC A. "Quantum-SAR Extension of the Spectral-SAR Algorithm. Application to Polyphenolic Anticancer Bioactivity", <i>International Journal of Molecular Sciences</i> , 10(3) (2009) 1193-1214 (ISSN: 1422-0067)	1.60778	1	1.60778
15	SELEGEAN M., <b>PUTZ M.V.</b> , RUGEA T. "Effect of the Polysaccharide Extract from the Edible Mushroom <i>Pleurotus Ostreatus</i> against Infectious Bursal Disease Virus", <i>International Journal of Molecular Sciences</i> , 10(8) (2009) 3616-3634 (ISSN: 1422-0067)	1.60778	2	0.80389
16	CHICU S.A., <b>PUTZ M.V.</b> "Köln-Timișoara Molecular Activity Combined Models toward Interspecies Toxicity Assessment", <i>International Journal of Molecular Sciences</i> , 10(10) (2009) 4474-4497 (ISSN: 1422-0067)	1.60778	1	1.60778
17	<b>PUTZ M.V.</b> , PUTZ A.M., LAZEA M., CHIRIAC A. "Spectral vs. Statistic Approach of Structure-Activity Relationship. Application on Ecotoxicity of Aliphatic Amines", <i>Journal of Theoretical and Computational Chemistry</i> , 8(6) (2009) 1235-1251 (ISSN: 0219-6336)	0.70060	1	0.7006
18	LASZLO T., <b>PUTZ M.V.</b> "On Electronegativity and Chemical Hardness Relationships with Aromaticity", <i>Journal of Mathematical Chemistry</i> , 47(1) (2010) 487-495 (ISSN: 0259-9791)	1.23054	1	1.23054
19	<b>PUTZ M.V.</b> "On Absolute Aromaticity within Electronegativity and Chemical Hardness Reactivity Pictures", <i>MATCH Communications in Mathematical and in Computer Chemistry</i> , 64(2) (2010) 391-418 (ISSN: 0340-6253)	2.20659	1	2.20659
20	<b>PUTZ M.V.</b> "Compactness	1.60778	1	1.60778

	Aromaticity of Atoms in Molecules", <i>International Journal of Molecular Sciences</i> , 11(4) (2010) 1269-1310 (ISSN: 1422-0067)			
21	<b>PUTZ M.V.</b> "On Heisenberg Uncertainty Relationship, Its Extension, and the Quantum Issue of Wave-Particle Duality", <i>International Journal of Molecular Sciences</i> , 11(10) (2010) 4124-4139 (ISSN: 1422-0067)	1.60778	1	1.60778
22	<b>PUTZ M.V.</b> "The Bondons: The Quantum Particles of the Chemical Bond", <i>International Journal of Molecular Sciences</i> , 11(11) (2010) 4227-4256 (ISSN: 1422-0067)	1.60778	1	1.60778
23	<b>PUTZ M.V.</b> "On Reducible Character of Haldane-Radić Enzyme Kinetics to Conventional and Logistic Michaelis-Menten Models", <i>Molecules</i> , 16(4) (2011) 3128-3145 (ISSN: 1420-3049)	0.82167	1	0.82167
24	<b>PUTZ M.V.</b> "Residual-QSAR. Implications for Genotoxic Carcinogenesis", <i>Chemistry Central Journal</i> , 5 (2011) 29 (11 pages) (ISSN: 1752-153X)	1.72754	1	1.72754
25	<b>PUTZ M.V.</b> , LAZEA M., SANDJO L.P. "Quantitative Structure Inter-Activity Relationship (QInAR). Cytotoxicity Study of Some Hemisynthetic and Isolated Natural Steroids and Precursors on Human Fibrosarcoma Cells HT1080", <i>Molecules</i> , 16(8) (2011) 6603-6620 (ISSN: 1420-3049)	0.82167	1	0.82167
26	<b>PUTZ M.V.</b> , IONAȘCU C., PUTZ A.M., OSTAFE V. "Alert-QSAR. Implications for Electrophilic Theory of Chemical Carcinogenesis", <i>International Journal of Molecular Sciences</i> , 12(8) (2011) 5098-5134 (ISSN: 1422-0067)	1.60778	2	0.80389
27	ORI O., CATALDO F., <b>PUTZ M.V.</b> "Topological Anisotropy of Stone-	1.60778	2	0.80389

	Wales Waves in Graphenic Fragments", <i>International Journal of Molecular Sciences</i> , 12(11) (2011) 7934-7949 (ISSN: 1422-0067)			
28	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", <i>International Journal of Molecular Sciences</i> , 12(12) (2011) 9533-9569 (ISSN: 1422-0067)	1.60778	2	0.80389
29	MATITO E., PUTZ M.V. "New Link between Conceptual Density Functional Theory and Electron Delocalization", <i>Journal of Physical Chemistry A</i> , 115 (45) (2011) 12459-12462 (ISSN: 1089-5639)	1.43336	1	1.43336
30	TARKO L., PUTZ M.V. "On Quantitative Structure-Toxicity Relationships (QSTR) using High Chemical Diversity Molecules Group", <i>Journal of Theoretical and Computational Chemistry</i> , 11(2) (2012) 265-272. (ISSN: 0219-6336)	0.70060	1	0.7006
<b>Total:</b>			<b>P=</b>	<b>35.6472</b>

NOTĂ: MINIM CERUT PENTRU ABILITARE, P=12