

**FIȘA DE ÎNDEPLINIRE A STANDARDELOR MINIMALE ȘI OBLIGATORII PENTRU  
 ÎNSCRIEREA LA CONCURSURILE PENTRU POSTURILE DIDACTICE ȘI DE CERCETARE**  
**Lect dr Laura PITULICE**

**DOMENIUL CHIMIE**  
**PROFESOR UNIVERSITAR/CERCETĂTOR ȘTIINȚIFIC I**  
**CONFERENȚIAR UNIVERSITAR/CERCETĂTOR ȘTIINȚIFIC II**  
**Criterii generale și standarde minimale**

Categorie	<b>N<sub>max</sub> (*)</b>	<b>FIC (**)</b>	<b>FIC<sub>D</sub> (***)</b>	<b>FIC<sub>AP</sub> (****)</b>	<b>FIC<sub>AC</sub> (*****)</b>	<b>h index(*****)</b>
Profesor universitar/Cercetător științific I	<b>50</b>	<b>100</b>	<b>70</b>	<b>50</b>	<b>25</b>	<b>13</b>
Conferențiar universitar/Cercetător științific II	<b>30</b>	<b>50</b>	<b>-</b>	<b>20</b>	<b>-</b>	<b>9</b>
<b>Lect dr Laura Pitulice</b>	<b>16</b>	<b>77.8</b>	<b>-</b>	<b>37.9</b>	<b>-</b>	<b>9</b>

(\*) **N<sub>max</sub>** - primele maxim N lucrări, organizate în ordinea descrescătoare a factorilor de impact a revistelor în care au fost publicate;

(\*\*) **FIC** - factorul de impact cumulat minimal al revistelor în care s-au publicat lucrările în cauză;

(\*\*\*) **FIC<sub>D</sub>** - factorul de impact cumulat minimal din publicații în domeniile de cercetare declarate;

(\*\*\*\*) **FIC<sub>AP</sub>** - factorul de impact cumulat minimal din publicații în calitate de autor principal (prim-autor și autor de corespondență);

(\*\*\*\*\*) **FIC<sub>AC</sub>** - factorul de impact cumulat minimal din publicații în calitate de autor de corespondență.

(\*\*\*\*\*) **h index** - se va lua în considerare valoarea obținută din baza de date Web of Science (WOS), utilizată și pentru calculul celorlalte criterii generale minimale numerice - FIC, FID (C), FIC (AP) și FIC (AC) - prin prisma factorilor de impact ai revistelor, publicații de Clarivate Analytics (Journal Citation Report)

**Recomandări suplimentare:**

- Capitolele de cărți se echivalează cu articole cu FI = 2, în cărțile prezente în mai mult de 150 de biblioteci (vizibile în motorul de căutare UEFISCDI);
- Brevetele internaționale (de tipul EU, WO) se echivalează (fiecare) cu un articol cu FI = 4.

**Notă:**

- Este obligatoriu ca pentru poziția de profesor candidații să ilustreze prin publicații domeniile proprii de cercetare (autor de corespondență).
- Aceste standarde sunt setul minim de standarde de concurs. Suplimentar, instituțiile (universități, institute) pot impune și alte cerințe, conform legii. În cazul universităților, asupra acestora se va pronunța un organism abilitat de către Senatul Universității și rezultatele vor fi aprobate de către Senat (Legea 1/2001 art 297, 219). În cazul institutelor asupra acestora va decide Consiliul Științific (Legea 319/2003, art 16(2)c). În ambele cazuri, CNATDCU va valida îndeplinirea setului minimal, conform legii 1/2011, art. 166(2), 219(1), 295(1)(3) și 300(4); respectiv legii 319/2003, art. 16(2)c.

- **Lista articolelor publicate in reviste de specialitate cotate in sistemul ISI**

**(aranjate cronologic)**

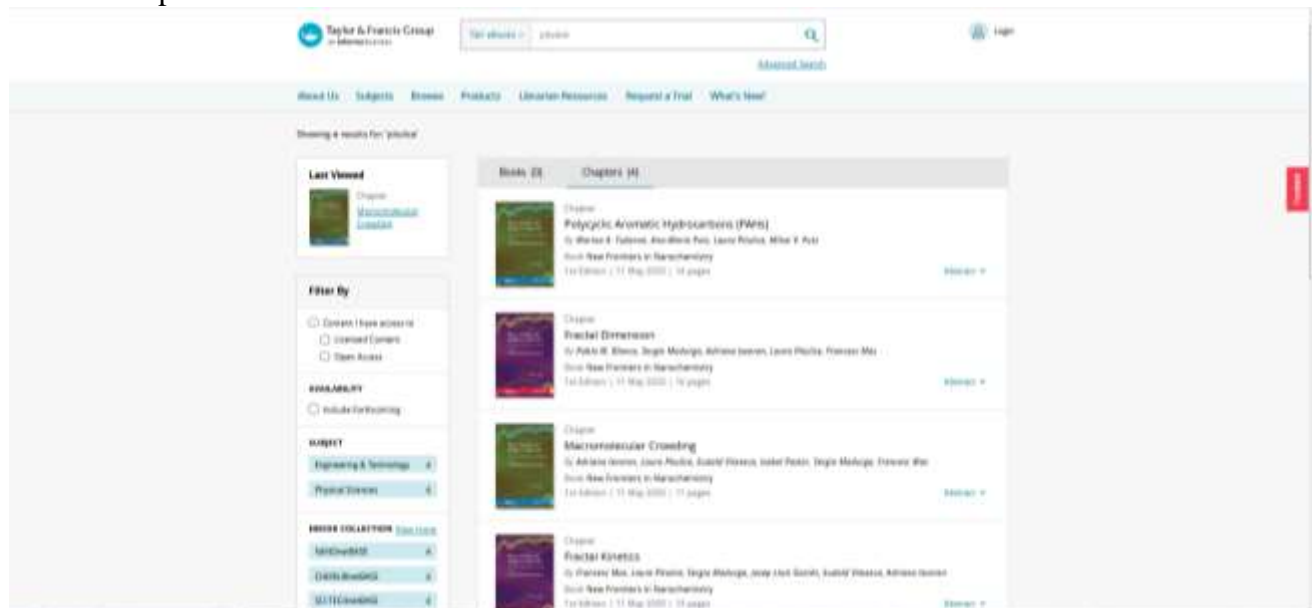
Nr. crt	Titlu	FI (2022)	FI Autor principal
1	Ciorba G.A., Radovan C, Vlaicu I, <u>Pitulice L</u> , Correlation Between Organic Component and Electrode Material. Consequences on Electrochemical Removal of Surfactants from Wastewater, <i>Electrochimica Acta</i> , 2000;46 (2-3), 297-303. <a href="https://doi.org/10.1016/S0013-4686(00)00585-5">doi.org/10.1016/S0013-4686(00)00585-5</a>	6.6	
2	Isvoran A., <u>Pitulice L.</u> , Craescu CT, Chiriac A, Fractal aspects of calcium binding proteins, <i>Chaos Solitons and Fractals</i> , 2008;35:960-966. <a href="https://doi.org/10.1016/j.chaos.2006.05.098">doi.org/10.1016/j.chaos.2006.05.098</a>	7.8	
3	<u>Pitulice L.</u> , <u>Isvoran A.</u> , <u>Chiriac A.</u> , Structural features of proteins reflected by structural scaling laws, <i>Journal of Serbian Chemical Society</i> , 2008;73(8-9): 805–813. <a href="https://doi.org/10.2298/JSC0809805P">doi.org/10.2298/JSC0809805P</a>	1	1
4	<u>Pitulice L.</u> , <u>Isvoran A.</u> , <u>Craescu C.T.</u> , <u>Chiriac A.</u> , Scaling properties of radius of gyration and surface area for EF hand calcium binding proteins, <i>Chaos Solitons and Fractals</i> , 2009; 40:684-690. <a href="https://doi.org/10.1016/j.chaos.2007.08.016">doi.org/10.1016/j.chaos.2007.08.016</a>	7.8	7.8
5	Dana Craciun, <u>Laura Pitulice</u> , A. Ciorsac, V. Ostafe, Adriana Isvoran. Proteins Surface Roughness Analysis. Comparison of Crystallographic and NMR Structures, <i>Romanian Reports in Physics</i> . 2012; 64(1): 116-126. DOI	2.7	
6	Patrulea, V., Negrulescu, A., Mincea, M. M., <u>Pitulice, L. D.</u> , Spiridon, O. B., and Ostafe, V. Optimization of the removal of copper(II) ions from aqueous solution on chitosan and cross-linked chitosan beads, <i>BioResources</i> . 2013; 8(1), 1147-1165. <a href="http://dx.doi.org/10.15376/biores.8.1.1147-1165">http://dx.doi.org/10.15376/biores.8.1.1147-1165</a>	1.5	
7	<u>Bizerea Spiridon O</u> , <u>Preda E</u> , <u>Botez A</u> , <u>Pitulice L</u> , Phenol removal from wastewater by adsorption on zeolitic composite. <i>Environ Sci Pollut Res</i> 2013; 20(9):6367-81. DOI: <a href="https://doi.org/10.1007/s11356-013-1625-x">10.1007/s11356-013-1625-x</a>	5.8	5.8
8	Pastor I, <u>Pitulice L</u> , Balcells C, Vilaseca E, Madurga S, Isvoran A, Cascante M, Mas F, Effect of crowding by Dextrans in enzymatic reactions. <i>Biophys Chem</i> 2014; 185:8-13. DOI: <a href="https://doi.org/10.1016/j.bpc.2013.10.006">10.1016/j.bpc.2013.10.006</a>	3.8	
9	<u>Pitulice L</u> , <u>Vilaseca E</u> , <u>Pastor I</u> , <u>Madurga S</u> , <u>Garcés JL</u> , <u>Isvoran I</u> , <u>Mas F</u> , Monte Carlo simulations of enzymatic reactions in crowded media. Effect of the enzyme-obstacle relative size. <i>Math Biosci</i> 2014; 251:72-82. DOI: <a href="https://doi.org/10.1016/j.mbs.2014.03.012">10.1016/j.mbs.2014.03.012</a>	4.3	4.3

Nr. crt	Titlu	FI (2022)	FI Autor principal
10	Dascălu D., Pitulice L, Ionel R., Bizerea-Spiridon O.. The usage of a zeolitic composite for quality improvement of copper contaminated mining wastewaters, Int J Env Sci Tech, JUL 2015; 12(7): 2285-2298. <a href="https://doi.org/10.1007/s13762-014-0629-5">https://doi.org/10.1007/s13762-014-0629-5</a>	3.1	3.1
11	Ionel R, Pitulice L, Vasiiu G, Mischie S and Bizerea O, Implementation of a GPRS based Remote Water Quality Analysis Instrumentation, Measurement, Apr 2015, 65: 81–93. <a href="https://doi.org/10.1016/j.measurement.2014.10.061">https://doi.org/10.1016/j.measurement.2014.10.061</a>	5.6	
12	Pitulice L, Craciun D, Vilaseca E, Madurga S, Pastor I, Mas F, Isvoran A. Fractal dimension of the trajectory of a single particle diffusing in crowded media. Romanian Journal of Physics 2016; 61(7-8): 1276-1286.	1.5	1.5
13	Bizerea-Moga TO, Pitulice L, Bizerea-Spiridon O, Moga TV. Evaluation of Serum Selenium Status by Age and Gender: A Retrospective Observational Cohort Study in Western Romania. Nutrients. 2021 Apr 28;13(5):1497. DOI: <a href="https://doi.org/10.3390/nu13051497">10.3390/nu13051497</a>	5.9	5.9
14	Isvoran, A.,Roman, D.,Dascalu, D.,Vlad-Oros, B.,Ciorsac, A., Pitulice, L.,Jonovic, R.,Stevanovic, Z. & Ostafe, V.Human Health Effects of Heavy Metal Pollution in the Cross-Border Area of Romania and Serbia: A Review. Ecological Chemistry and Engineering S. 2021; 28(3) 365-388. <a href="https://doi.org/10.2478/eces-2021-0025">doi.org/10.2478/eces-2021-0025</a>	1.9	
15	Bizerea-Moga TO, Pitulice L, Pantea CL, Olah O, Marginean O, Moga TV. Extreme Birth Weight and Metabolic Syndrome in Children. Nutrients. 2022 Jan 2;14(1):204. doi: <a href="https://doi.org/10.3390/nu14010204">10.3390/nu14010204</a> .	5.9	5.9
16	Bizerea-Moga TO, Pitulice L, Bizerea-Spiridon O, Angelescu C, Mărginean O, Moga TV. Selenium status in term neonates, according to birth weight and gestational age, in relation to maternal hypertensive pathology. Front Pediatr. 2023;11:1157689. doi:10.3389/fped.2023.1157689	2.6	2.6
	<b>Total FI</b>	<b>67.8</b>	<b>37.9</b>

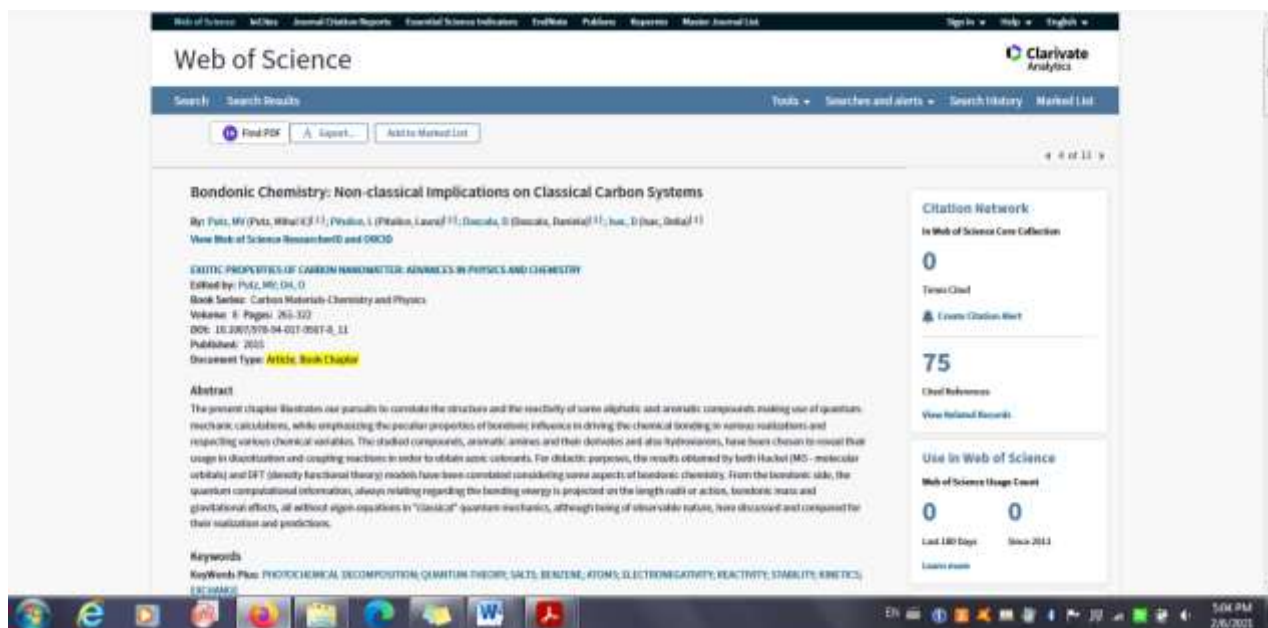
- **Carti & Capitole Internationale**

<b>Nr. Crt.</b>	<b>Carte/Capitol carte</b>	<b>FI echivalat</b>
1	Mas Francesc, <u>Pitulice Laura</u> , Isvoran Adriana, Madurga Sergio, Blanco Pablo M. Fractal Dimension in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 1, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages:16	2
2	Adriana Isvoran, Eudald Vilaseca, Josep Lluís Garcés, Sergio Madurga, <u>Laura Pitulice</u> , Francesc Mas. Fractal Kinetic in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 1, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages:13	2
3	Francesc Mas, Sergio Madurga, Isabel Pastor, Eudald Vilaseca, <u>Laura Pitulice</u> , Adriana Isvoran. Macromolecular Crowding in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 11	2
4	Putz Mihai V., <u>Pitulice Laura</u> , Putz Ana-Maria, Tudoran Marina A. Polycyclic Aromatic Hydrocarbons (PAHs) in <i>New Frontiers in Nanochemistry</i> , Concepts, Teories ad Trends, Volume 3, ed Putz MV, 1st Ed., Apple Academic Press, 2020, Pages: 14	2
5	Putz M.V., <u>Pitulice L</u> , Dascalu D, Isac D. Bondonic Chemistry: Non-classical Implications on Classical Carbon Systems in Exotic Properties of Carbon Nanomatter: Advances in Physics and Chemistry, ed Putz MV and Ori O. Book Series: Carbon Materials-Chemistry and Physics Volume: 8 Pages: 261-322 Published: 2015	2
	<b>Total FI</b>	<b>10</b>

Exemple Biblioteci



Anul	Titlul	Biblioteci
2020	<p><b>PUTZ M.V. (Editor)</b></p> <p>NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, <b>VOLUME 1: STRUCTURAL NANOCHEMISTRY</b></p> <p>Apple Academic Press &amp; CRC Press, Toronto-New Jersey, Canada-USA</p> <p>pp. 526+index;</p> <p>ISBN: 978-1-771887-77-9</p> <p>§URL: <a href="http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779">http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-1-structural-nanochemistry-/9781771887779</a></p>	<p><a href="#">BVB - BibliotheksVerbund Bayern Solr-Zugang</a>; <a href="#">KOBV Berlin-Brandenburg</a>; <a href="#">K10plus - Union Catalog of GBV and SWB</a>; <a href="#">Union Catalogue of Belgian Libraries</a>; <a href="#">National Library of France</a>; <a href="#">Swisscovery (SLSP)</a>; <a href="#">Amazon.de - German Books</a>; <a href="#">SUDOC</a>, <a href="#">French Union Catalog</a>; <a href="#">Worldcat</a>; <a href="#">Jisc Library Hub Discover (formerly Copac)</a>; <a href="#">oria.no - BIBSYS</a>; ETC.</p>
2020	<p><b>PUTZ M.V. (Editor)</b></p> <p>NEW FRONTIERS IN NANOCHEMISTRY: CONCEPTS, THEORIES, AND TRENDS, <b>VOLUME 3: SUSTAINABLE NANOCHEMISTRY</b></p> <p>Apple Academic Press &amp; CRC Press, Toronto-New Jersey, Canada-USA</p> <p>pp. 504+index;</p> <p>ISBN: 978-1-771887-79-3</p> <p>§URL: <a href="http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-3-sustainable-nanochemistry-/9781771887793">http://www.appleacademicpress.com/new-frontiers-in-nanochemistry-concepts-theories-and-trends-volume-3-sustainable-nanochemistry-/9781771887793</a></p>	<p><a href="#">BVB - BibliotheksVerbund Bayern Solr-Zugang</a>; <a href="#">KOBV Berlin-Brandenburg</a>; <a href="#">K10plus - Union Catalog of GBV and SWB</a>; <a href="#">Union Catalogue of Belgian Libraries</a>; <a href="#">National Library of France</a>; <a href="#">Swisscovery (SLSP)</a>; <a href="#">Amazon.de - German Books</a>; <a href="#">SUDOC</a>, <a href="#">French Union Catalog</a>; <a href="#">Worldcat</a>; <a href="#">Jisc Library Hub Discover (formerly Copac)</a>; <a href="#">oria.no - BIBSYS</a>; ETC.</p>



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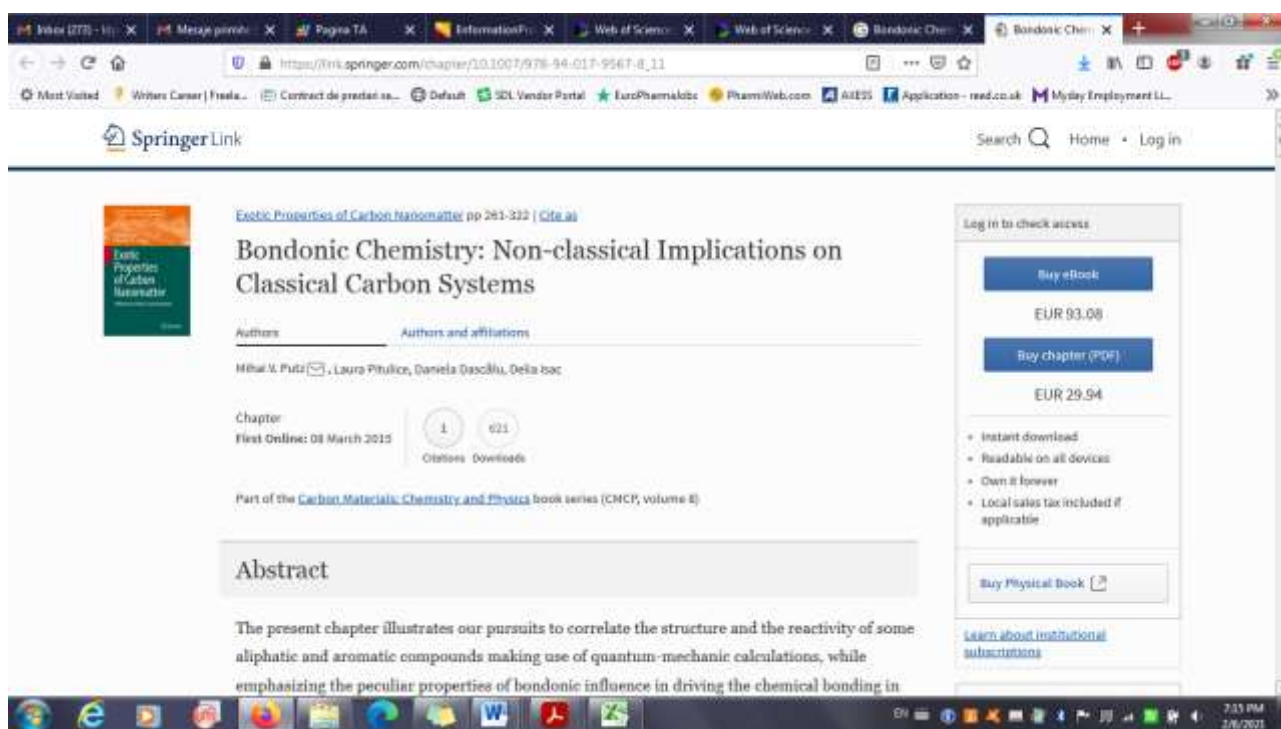
**Bondonic Chemistry: Non-classical Implications on Classical Carbon Systems**  
 By: Putz, M (Putz, Mihai) (1), Pihlica, L (Pihlica, Laura) (1), Dascalu, D (Dascalu, Daniela) (1), Iac, D (Iac, Delia) (1)  
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**EXOTIC PROPERTIES OF CARBON NANOMATERIALS: ADVANCES IN PHYSICS AND CHEMISTRY**  
 Edited by: Putz, M (1), Iac, D  
 Book Series: Carbon Materials: Chemistry and Physics  
 Volume: 8 Pages: 261-322  
 DOI: 10.1007/978-94-017-9567-8\_11  
 Published: 2015  
 Document Type: Article, Book Chapter

**Abstract**  
 The present chapter illustrates our pursuits to correlate the structure and the reactivity of some aliphatic and aromatic compounds making use of quantum mechanic calculations, while emphasizing the peculiar properties of bondonic influence in driving the chemical bonding in various realizations and respecting various chemical variables. The studied compounds, aromatic amines and their derivatives and also hydrocarbons, have been chosen to reveal their origin in quantization and coupling reactions in order to obtain some solvents. For didactic purposes, the results obtained by both Huckel (MO - molecular orbitals) and DFT (density functional theory) models have been compared considering some aspects of bondonic chemistry. From the bondonic side, the quantum computational information, always relating regarding the bonding energy is projected on the length radii or action, bondonic mass and gravitational effects, all without sign equations in "classical" quantum mechanics, although being of observable nature, have discussed and compared for their realization and predictions.

**Keywords**  
 Keywords Plus: PHOTOCHEMICAL DECOMPOSITION; QUANTUM THEORY; SALTS; BENZENE; ATOMS; ELECTRONEGATIVITY; REACTIVITY; STABILITY; KINETICS; (SCOPUS)

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**Bondonic Chemistry: Non-classical Implications on Classical Carbon Systems**  
 Authors: Authors and affiliations  
 Mihai V. Putz, Laura Pihlica, Daniela Dascalu, Delia Iac

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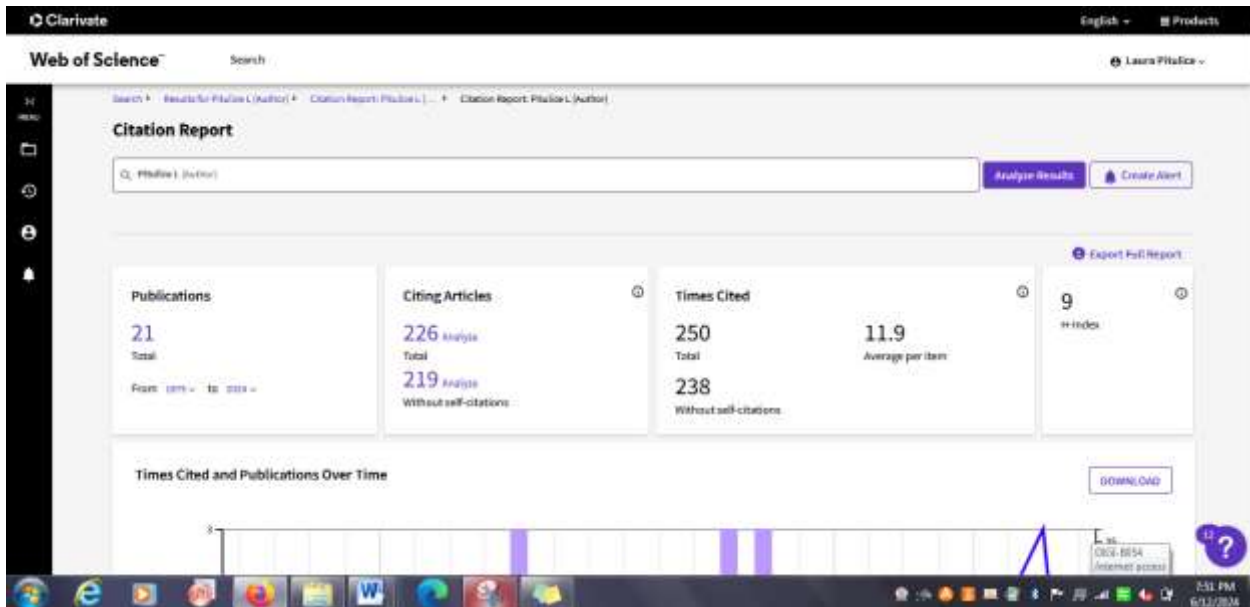
**Abstract**  
 The present chapter illustrates our pursuits to correlate the structure and the reactivity of some aliphatic and aromatic compounds making use of quantum-mechanic calculations, while emphasizing the peculiar properties of bondonic influence in driving the chemical bonding in

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