

Publication List



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Total number of publications: 35 (26 ISI)

Total times cited: 232

Hirsch index: 11

[Web of Science](#), [Scopus](#), [Google Scholar](#)

[UEF-ID Brainmap: U-1700-035G-2929](#)

1. Alexandra Bogdan, Lorant Szolga, Gavril-Ionel Giurgi, Andreea Petronela Crişan, Diana Bogdan, Sarinya Hadsadee, Siriporn Jungsuttiwong, Riccardo Po, Ion Grosu, Jean Roncali: [Structure-properties relationships in triarylamine-based push-pull systems-C60 dyads as active material for single-material organic solar cells](#), DYES RELATIONS 184, 108845 (2021) (IF 4.613)
2. Ioan-Adrian Stoiian, Bogdan-Cezar Iacob, Cosmina-Larisa Dudaş, Lucian Barbu-Tudoran, Diana Bogdan, Iuliu Ovidiu Marian, Ede Bodoki, Radu Oprean: [Biomimetic electrochemical sensor for the highly selective detection of azithromycin in biological samples](#), BIOSENS BIOELECTRON 155, 112098 (2020) (IF 10.257)
3. Mihaela Teriş, Petrică Ionuţ Leva, Diana Bogdan, Maria Suci, Florin Graur, Cecilia Cristea: [Impedimetric aptasensor for the label-free and selective detection of Interleukin-6 for colorectal cancer screening](#), BIOSENS BIOELECTRON 137, 123-132 (2019) (IF 10.257)
4. Alia Colniţă, Nicoleta E Dina, Nicolae Leopold, Dan C Vodnar, Diana Bogdan, Sebastian A Porav, Leontin David: [Characterization and discrimination of gram-positive bacteria using Raman spectroscopy with the aid of principal component analysis](#), NANOMATERIALS-BASEL 7(9), 248 (2017) (IF 3.504)
5. Mihaela Teriş, Andreea Cernat, Daniela Lacatiş, Anca Florea, Diana Bogdan, Maria Suci, Robert Săndulescu, Cecilia Cristea: [Highly selective electrochemical detection of serotonin on polypyrrole and gold nanoparticles-based 3D architecture](#), ELECTROCHEM COMMUN 75, 43-47 (2017) (IF 4.66)
6. Mihaela Teriş, Anca Florea, Alina Adumitrăchioaie, Andreea Cernat, Diana Bogdan, Lucian Barbu-Tudoran, Nicole Jaffrezic Renault, Robert Săndulescu, Cecilia Cristea: [Detection of dopamine by a biomimetic electrochemical sensor based on polythioaniline bridged gold nanoparticles](#), CHEMPLUSCHEM 82(4) 561-569 (2017) (IF 3.205)
7. Ede Bodoki, Diana Bogdan, Robert Săndulescu: [Ab initio study of the Na-colchicine positively charged complex](#) FARMACIA 63(4) 539-542 (2015) <http://www.revistafarmacia.ro/201504/issue42015art11.html> (IF 1.162)
8. Diana Bogdan, Cristian Morari: [Effect of van der Waals Interaction on the Geometric and Electronic Properties of DNA Nucleosides Adsorbed on Cu\(111\) Surface: A DFT Study](#) J PHYS CHEM A 117(22) 4669-4678 (2013) (IF 2.775)
9. Cristina M Muntean, Ioan Bratu, Diana Bogdan: [Subpicosecond processes in nucleic acids bases monitored by Raman spectroscopy](#) BIOMED SPECTROSC IMAGING 2(1) 37-49 (2013)
10. Diana Bogdan, Cristian Morari: [Electronic Properties of DNA Nucleosides Adsorbed on a Au\(100\) Surface](#) J PHYS CHEM C 116(13) 7351-7359 (2012) (IF 4.814)
11. M El Garah, F Palmino, F Chérioux, S Melinte, B Hackens, M Silveira Rodrigues, D Bogdan, E Duverger: [Adsorption of zwitterionic assemblies on Si\(111\) - 7 × 7: A joint tunneling spectroscopy and ab initio study](#) PHYS REV B 85(3), 035425 (2012)
12. Cristian Morari, Diana Bogdan, Cristina M. Muntean: [Binding Effects of Mn²⁺ and Zn²⁺ Ions on the Vibrational Properties of Guanine-Cytosine Base Pairs in the Watson-Crick and Hoogsteen Configurations](#) J MOL MODEL 18(11) 4781-4786 (2012) (IF 1.984)
13. Diana Bogdan, Radu Isai, Adrian Calborean, Cristian Morari: [Ab-initio study of the vibrational properties of single-walled silicon nanotubes](#) PHYSICA E 44(7-8) 1441-1445 (2012) (IF 1.522)
14. Attila Bende, Diana Bogdan, Cristina M Muntean, Cristian Morari: [Localization and anharmonicity of the vibrational modes for GC Watson-Crick and Hoogsteen base pairs](#) J MOL MODEL 17(12) 3265-3274 (2011) (IF 1.797)
15. Vincent J Smith, Diana Bogdan, Mino R Caira, Mircea Bogdan, Susan A Bourne, Sorin I Fărcaş: [Cyclodextrin inclusion of four phenylurea herbicides: determination of complex stoichiometries and stability constants using solution ¹H NMR spectroscopy](#) SUPRAMOL CHEM 22(3) 172-177 (2010) (IF 1.94)
16. Elise JC de Vries, Mino R Caira, Mircea Bogdan, Sorin I Farcas, Diana Bogdan: [Inclusion of parabens in β-cyclodextrin: A solution NMR and X-ray structural investigation](#) SUPRAMOL CHEM 21(5) 358-366 (2009) (IF 1.885)
17. Cristian Morari, Diana Bogdan, Ioan Turcu: [A first-principles study of π-conjugated thiol phenothiazine derivatives adsorbed on Au\(111\) surface](#) CENT EUR J PHYS 7(2) 332-339 (2009) (IF 0.728)
18. Chinthaka Sanath Gangabadge, Andzelika Najda, Diana Bogdan, Sybren S Wijmenga, Marco Tessari: [Dependence of the size of a protein-SDS complex on detergent and Na⁺ concentrations](#) J PHYS CHEM B 112(14) 4242-4245 (2008) (IF 4.189)
19. Diana Bogdan: [Electronic structure and driving forces in α-cyclodextrin-butylparaben inclusion complexes](#) PHYS LETT A 372(23) 4257-4262 (2008) (IF 2.174)
20. Diana Bogdan, Cristian Morari: [Electronic structure and driving forces in β-cyclodextrin: diclofenac inclusion complexes](#) PHYS LETT A 366(4), 454-459 (2007) (IF 1.711)
21. Diana Bogdan, C Morari: [Theoretical investigation of the normal modes for the ground and first excited states of a realistic retinal chromophore model](#) PHYS SCRIPTA 73(5), 447-451 (2006) (IF 1.161)
22. C Morari, Diana Bogdan: [A study of the anharmonic effects on the vibrational spectra of a realistic retinal chromophore model](#) SPECTROCHIM ACTA A 61(8), 1881-1886 (2005) (IF 1.29)
23. Diana Bogdan, Cristian Morari: [Theoretical study of the docking process in the β-Cyclodextrin Alkylparabens inclusion complexes](#) ROM J PHYS 50(9-10), 1003-1008 (2005) ISSN 1221-146X (IF 0.279)

24. Cristian Morari **Diana Bogdan**, Mircea Bogdan: [Theoretical study of the driving forces in the \$\alpha\$ - and \$\beta\$ -Cyclodextrin-Diclofenac inclusion complexes](#) ROM J PHYS 50(9-10), 995-1002 (2005) ISSN 1221-146X (IF 0.279)
25. Mircea Bogdan, Mino R Caira, **Diana Bogdan**, Cristian Morari, Sorin I Fărcaș: [Evidence of a Bimodal Binding between Diclofenac-Na and \$\beta\$ -Cyclodextrin in Solution](#) J INCL PHENOM AND MACROCYCLIC CHEM 49(3-4) 225-229 (2004) (IF 0.825)
26. DE Demco, X Filip, C Filip, **D Chira**, O Cozar: [Homonuclear separated local-field spectroscopy by magnetization exchange](#) NMR ACTA PHYSICA POLONICA 92(6) 1135-1149 (1997) (IF 0.311)

B+, non-ISI

1. **D Bogdan**, R Brătfălean, R Isai, C Morari: [Ab initio study of DNA nucleotides sandwiched between Au\(111\) electrodes](#) J PHYS: CONF SER 182 012058 (2009) ISSN 1742-6588
2. M Bogdan, C Floare, **D Bogdan**, SI Fărcaș: [Photodegradation of inclusion complexes of Naproxen and Niflumic acid with \$\beta\$ -Cyclodextrin](#) STUDIA UBB PHYSICA 50(4b), 721-724 (2005) ISSN 0258-8730
3. **D Bogdan**: [Complexarea prin incluziune moleculară a parabenelor cu ciclodextrine; caracterizare spectroscopică și modelare moleculară](#), REVISTA DE POLITICA ȘTIINTEI ȘI SCIENTOMETRIE, 1-14 (2005) ISSN 1582-1218
4. MR Caira, EJC de Vries, M Bogdan, **D Bogdan**, SI Fărcaș: [Inclusion of Alkylparabens in Cyclodextrins](#) STUDIA UBB. PHYSICA 48(1), 95-102 (2003) ISSN 0370-8578
5. M Bogdan, **D Bogdan**, MR Caira, SI Fărcaș: [Bimodal Molecular Encapsulation of Mefenamic Acid by \$\beta\$ -CD Solution and Solid State](#) STUDIA UBB. PHYSICA 48(1), 167-172 (2003) ISSN 0370-8578
6. **D Bogdan**, C Morari, M Bogdan: [NMR Study of Homo- and Heteroassociation of Aromatic Molecules in Aqueous Solution. Numerical Simulations](#) STUDIA UBB. PHYSICA 48(2), 445-449 (2003) ISSN 0370-8578
7. L Filip, **D Bogdan**, M Bojiță, M Bogdan: [Spectroscopic studies on inclusion complex of sulphasalazine with cyclodextrins](#) STUDIA UBB. PHYSICA Special Issue 2, 362-365 (2001) ISSN 0370-8578

Book: **Diana Bogdan**: *Complecși Moleculari de Incluziune*, Editura Grinta, Cluj-Napoca, 164 pp., 2012, ISBN 978-973-126-341-0