

Publication Lists :



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Total number of ISI publications: 81

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Hirsch index: 17

Web of Science, Scopus, Google Scholar or Publication List.

Articles (ISI) (selected):

1. F. Pogăcean, M. Coroş, V. Mirel, L. Măgeruşan, L. Barbu-Tudoran, A. Vulpoi, R.I. van-Staden, **Stela Pruneanu**, *Graphene-based materials produced by graphite electrochemical exfoliation in acidic solutions: Application to Sunset Yellow voltammetric detection*, *Microchemical Journal*, 147 (2019) 112-120; IF = 2.746
2. F. Pogăcean, M. Coroş, L. Măgeruşan, V. Mirel, A. Turza, G. Katona, R. I. Ştefan- van Staden, **Stela Pruneanu**, *Exfoliation of graphite rods via pulses of current for graphene synthesis: Sensitive detection of 8-hydroxy-2'-deoxyguanosine* *Talanta* 196 (2019) 182–190; IF= 4.244
3. M. Coroş, F. Pogăcean, L. Măgeruşan, C. Socaci, **Stela Pruneanu**, *A brief overview on synthesis and applications of graphene and graphene-based nanomaterials*, *Frontiers of Materials Science* 1 (2019) 23-32; IF = 1.478
4. L. Măgeruşan, F. Pogăcean, M. Coroş, C. Socaci, **Stela Pruneanu**, C. Leoştean, I. O. Pană, *Green methodology for the preparation of chitosan/graphene nanomaterial through electrochemical exfoliation and its applicability in Sunset Yellow detection*, *Electrochimica Acta* 283 (2018) 578-589 IF = 5.116
5. M. Moldovan, D. Prodan, C. Sarosi, R. Carpa, C. Socaci, M. C. Rosu, **Stela Pruneanu**, *Synthesis, morpho-structural properties and antibacterial effect of silicate-based composites containing graphene oxide/hydroxyapatite*, *Materials Chemistry and Physics* 217 (2018) 48-53 IF = 2.21
6. I. Gandouzi, M. Tertis, A. Cernat, A. Bakhrouf, M. Coroş, **Stela Pruneanu**, C. Cristea, *Sensitive detection of pyoverdine with an electrochemical sensor based on electrochemically generated graphene functionalized with gold nanoparticles*, *Bioelectrochemistry* 120 (2018) 94–103 IF = 3.789
7. M. Coroş, F. Pogăcean, L. Măgeruşan, M. C. Roşu, A. S. Porav, C. Socaci, A. Bende, R. I. Stefan-van Staden, **Stela Pruneanu**, *Graphene-porphyrin composite synthesis through graphite exfoliation: The electrochemical sensing of catechol*, *Sensors and Actuators B: Chemical* 256 (2018) 665–673 IF = 5.667
8. F. Pogăcean, M. Coroş, L. Măgeruşan, M. C. Roşu, C. Socaci, S. Gergely, R. I. Ştefan van Staden, M. Moldovan, C. Sarosi, **Stela Pruneanu**, *Sensitive detection of hydroquinone using exfoliated graphene-Au/glassy carbon modified electrode*, *Nanotechnology* 29 (2018) 095501 IF = 3.404
9. R. I. Stefan-van Staden, L. R. Balahura, L. A. Gugoasa, J.F. van Staden, H. Y. Aboul-Enein, M. C. Rosu, **Stela Pruneanu**, *Pattern recognition of 8-hydroxy-2'-deoxyguanosine in biological fluids*, *Analytical and Bioanalytical Chemistry* 410 (1) (2018) 115-121 IF = 3.307
10. F. Pogăcean, M. C. Roşu, M. Coroş, L. Măgeruşan, M. Moldovan, C. Sarosi, A. S. Porav, R. I. Ştefan-van Staden, **Stela Pruneanu**, *Graphene/TiO₂-Ag based composites used as sensitive electrode materials for amaranth electrochemical detection and degradation*, *Journal of the Electrochemical Society* 165 (8) (2018) B3054-B3059 IF = 3.662

11. M. C. Roșu, M. Coroș, F. Pogăcean, L. Măgerușan, C. Socaci, A. Turza, **Stela Pruneanu**, *Azo dyes degradation using TiO₂-Pt/graphene oxide and TiO₂-Pt/reduced graphene oxide photocatalysts under UV and natural sunlight irradiation*, *Solid State Sciences* 70 (2017) 13-20 IF = 1.861
12. L. Măgerușan, C. Socaci, M. Coroș, F. Pogăcean, M. C. Roșu, S. Gergely, **Stela Pruneanu**, C. Leoștean, I. O. Pană, *Electrochemical platform based on nitrogen-doped graphene/chitosan nanocomposite for selective Pb²⁺ detection*, *Nanotechnology* 28 (2017) 114001 IF = 3.404
13. R. I. Stefan- van Staden, A. G. Diaconeasa, L. A. Gugoasa, M. C. Rosu, **Stela Pruneanu**, *Molecular recognition of pyruvic acid and folic acid in whole blood*, *RSC Advances* 7 (79) (2017) 50072-50078 IF = 2.936
14. L. A. Gugoasa, A. J. M. AlOgaidi, R. I. Stefan-Van Staden, A. El-Khatib, M. C. Rosu, **Stela Pruneanu**, *Multimode microsensors based on Ag-TiO₂-graphene materials used for the molecular recognition of carcinoembryonic antigen in whole blood samples*, *RSC Advances* 7 (45) (2017) 28419-28426 IF = 2.936
15. L. A. Gugoasa, R. I. Stefan-Van Staden, A. J. Muklive Al-Ogaidi, C. Stanciu-Gavan , J. F. Van Staden, M. C. Rosu, **Stela Pruneanu**, *Molecular recognition of colon cancer biomarkers: P53, KRAS and CEA in whole blood samples*, *Journal of the Electrochemical Society*, 164 (9) (2017) B443-B447 IF = 3.662
16. M. C. Roșu, E. Páll, C. Socaci, L. Măgerușan, F. Pogăcean, M. Coroș, A. Turza, **Stela Pruneanu**, *Cytotoxicity of methylcellulose-based films containing graphenes and curcumin on human lung fibroblasts*, *Process Biochemistry* 52 (2017) 243–249 IF = 2.616
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18. F. Pogăcean, A. R. Biriș, C. Socaci, M. Coroș, L. Măgerușan, M. C. Roșu, M. D. Lazăr, G. Borodi, **Stela Pruneanu**, *Graphene–bimetallic nanoparticle composites with enhanced electro-catalytic detection of bisphenol A*, *Nanotechnology* 27 (2016) 484001 IF = 3.44
19. M. C. Roșu, C. Socaci, V. Floare-Avram, G. Borodi, F. Pogăcean, M. Coroș, L. Măgerușan, **Stela Pruneanu**, *Photocatalytic performance of graphene/TiO₂-Ag composites on amaranth dye degradation*, *Materials Chemistry and Physics* 179 (2016) 232-241 IF = 2.084
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21. L. Măgerușan, C. Socaci, F. Pogăcean, M. C. Roșu, A. R. Biriș, M. Coroș, A. Turza, V. Floare-Avram, G. Katona, **Stela Pruneanu**, *Enhancement of peroxidase-like activity of N-doped graphene assembled with iron-tetrapyridylporphyrin*, *RSC Adv.* 6 (2016) 79497–79506 IF = 3.108
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30. F. Pogacean, A. R. Biris, M. Coros, F. Watanabe, A. S. Biris, S. Clichici, A. Filip, **Stela Pruneanu**, *Electrochemical oxidation of adenine using platinum electrodes modified with carbon nanotubes*, Physica E 59 (2014) 181–185 IF= 1.856
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32. A. R. Biris, M. D. Lazar, **Stela Pruneanu**, C. Neamtu, F. Watanabe, G. K. Kannarpady, E. Dervishi, A. S. Biris, *Catalytic one-step synthesis of Pt-decorated few-layer graphenes*, RSC Adv. 3 (2013) 26391-26402 IF= 3.708
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Papers presented at Conferences

1. **Stela Pruneanu**, A. R. Biriş, C. Socaci, F. Pogăcean, M. Coroş, M. C. Roşu, L. Măgeruşan, *Applications of graphene-based composites*, *Graphene and related Materials: properties and applications, International Conference, May 23-27, 2016, Paestum, Salerno (Italy)- oral presentation*
2. M. Coroş, C. Socaci, F. Pogăcean, A. R. Biriş, M. C. Roşu, L. Măgeruşan, **Stela Pruneanu**, *Supramolecular assemblies of tetrapyrrolylporphyrin and its metallic complexes with N-doped graphene*, *Graphene and related Materials: properties and applications, International Conference, May 23-27, 2016, Paestum, Salerno (Italy)-poster*
3. F. Pogăcean, **Stela Pruneanu**, A. R. Biriş, C. Socaci, M. Coroş, M.C. Roşu, L. Măgeruşan, *Electrochemical detection of various organic molecules at electrodes modified with graphene-metallic/bimetallic nanoparticles*, *Graphene and related Materials: properties and applications, International Conference, May 23-27, 2016, Paestum, Salerno (Italy)-poster*
4. Peroxidase biomimetic materials based on porphyrin and graphene/graphene oxide, **Stela Pruneanu**, C. Socaci, F. Pogăcean, M. Coros, L. Magerusan, M. C. Rosu, *National Conference of Biophysics, Cluj-Napoca, 2-4 June 2016- poster*
5. Graphene Oxide-based Composites as Biocompatible Substrates for Cell Adhesion and Proliferation, M. C. Rosu, C. Socaci, L. Magerusan, F. Pogăcean, M. Coros, E. Pall, **Stela Pruneanu**, *National Conference of Biophysics, Cluj-Napoca, 2-4 June 2016- poster*
6. Electrochemical sensors based on biocompatible polymer / graphene nanocomposite for heavy metal ion detection, L. Magerusan, C. Socaci, F. Pogăcean, M. Coros, M. C. Rosu, **Stela Pruneanu** *National Conference of Biophysics, Cluj-Napoca, 2-4 June 2016- poster*
7. F. Pogăcean, A. R. Biriş, C. Socaci, V. Floare-Avram, M. C. Rosu, M. Coros, **Stela Pruneanu**, *Electrochemical degradation of carbamazepine using electrode modified with graphene-AuAg composite*, *Processes in Isotopes and Molecules (PIM 2015), 23-25 September 2015, Cluj-Napoca, ROMANIA- poster*
8. M. Coroş, F. Pogăcean, M. C. Roşu, C. Socaci, G. Borodi, A. R. Biriş, D. N. Becherescu Barbu, **Stela Pruneanu**, *Synthesis of graphene oxide by electrochemical exfoliation of graphite*, *Processes in Isotopes and Molecules (PIM 2015), 23-25 September 2015, Cluj-Napoca, ROMANIA- poster*
9. F. Pogăcean, A. R. Biriş, **Stela Pruneanu**, M. Coros, F. Watanabe, A. S. Biriş, *Electrochemical detection of biological and pharmaceutical compounds using graphene modified electrodes*, *The Third International Conference on Analytical and Nanoanalytical Methods for Biomedical and Environmental Sciences "IC-ANMBES 2014" June 13th – 15th, 2014, Brasov, Romania- poster*
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