

32. Francesca Baldassarre, "Enhanced Bioactivity of Pomegranate Peel Extract following Controlled Release from CaCO₃ Nanocrystals," *Bioinorganic Chemistry and Applications*, vol. 2022, Article ID 6341298, 16 pages, 2022. <https://doi.org/10.1155/2022/6341298>.
31. F. Baldassarre, G. Ciccarella. *Biology-inspired photocatalysis: Recent advances in biomimetic photocatalytic nanosystems synthesis and applications*. 2021. ISBN: 978-0-12-821859-4. Capitolo di Libro
30. F. Biondo, F. Baldassarre and G. Ciccarella, *Controlled biocide release from smart delivery systems: materials engineering to tune release rate, biointeractions, and responsiveness*. 2021. ISBN: 9780128233948. Capitolo di Libro
29. Asteggiano, A.; Franceschi, P.; Zorzi, M.; Aigotti, R.; Dal Bello, F.; Baldassarre, F.; Lops, F.; Carlucci, A.; Medana, C.; Ciccarella, G.; et al. HPLC-HRMS Global Metabolomics Approach for the Diagnosis of "Olive Quick Decline Syndrome" Markers in Olive Trees Leaves. *Metabolites* 2021, 11, 40. <https://doi.org/10.3390/metabo11010040>.
28. Federica De Castro, Viviana Vergaro, Michele Benedetti, Francesca Baldassarre, Laura Del Coco, Maria Michela Dell'Anna, Piero Mastroianni, Francesco Paolo Fanizzi, and Giuseppe Ciccarella. Visible Light-Activated Water-Soluble Platicur Nanocolloids: Photocytotoxicity and Metabolomics Studies in Cancer Cells. *ACS Applied Bio Materials* **2020** 3 (10), 6836-6851. DOI: 10.1021/acsabm.0c00766
27. Federica De Castro, Viviana Vergaro, Michele Benedetti, Francesca Baldassarre, Laura Del Coco, Maria Michela Dell'Anna, Piero Mastroianni, Francesco Paolo Fanizzi, and Giuseppe Ciccarella. Photoactivated aqueous nanocolloids of Platicur: NMR metabolomic study of treated HeLa cancer cells. *Relazione di atto di convegno in volume. BioMet 2020, XIX Workshop on PharmacoBioMetallics*. <http://hdl.handle.net/11587/441780>.
26. Francesca Baldassarre*, Giuseppe Tatulli, Viviana Vergaro, Stefania Mariano, Valeria Scala, Concetta Nobile, Nicoletta Pucci, Luciana Dini, Stefanina Loreti, Giuseppe Ciccarella. Sonication-Assisted Production of Fosetyl-Al Nanocrystals: Investigation of Human Toxicity and In Vitro Antibacterial Efficacy against *Xylella fastidiosa*. *Nanomaterials* 2020, 10, 1174; doi:10.3390/nano10061174.
25. Francesca Baldassarre*, Angelo De Stradis, Giuseppe Altamura, Viviana Vergaro, Cinzia Citti, Giuseppe Cannazza, Agostina L. Capodilupo, Luciana Dini and Giuseppe Ciccarella. Application of calcium carbonate nanocarriers for controlled release of phytodrugs against *Xylella fastidiosa* pathogen. *Pure Appl. Chem.* 2019. doi.org/10.1515/pac-2018-1223.
24. Viviana Vergaro, Isabella Pisano, Roberto Grisorio, Francesca Baldassarre, Rosanna Mallamaci, Antonella Santoro, Gian Paolo Suranna, Paride Papadia, Francesco Paolo Fanizzi and Giuseppe Ciccarella. CaCO₃ as an Environmentally Friendly Renewable Material for Drug Delivery Systems: Uptake of HSA-CaCO₃ Nanocrystals Conjugates in Cancer Cell Lines. *Materials* 2019, 12, 1481.
23. Buccolieri A., Bettini S., Salvatore L., Baldassarre F., Ciccarella G, Giancane G. Sub-nanomolar detection of biogenic amines by SERS effect induced by hairy Janus silver nanoparticles. *Sensors and Actuators B: Chemical*, Volume 267, 15 August 2018, Pages 265-271. <https://doi.org/10.1016/j.snb.2018.04.028>.
22. Vergaro V., Civallero M., Citti C., Cosenza M., Baldassarre F, Cannazza G., Pozzi S., Sacchi S., Fanizzi F. P., Ciccarella G., Cell-Penetrating CaCO₃ Nanocrystals for Improved Transport of NVP-BE235 across Membrane Barrier in T-Cell Lymphoma. (2018), *Cancers* 2018, 10(2), 31; doi:10.3390/cancers10020031
21. Filippo E., Chirizzi D., Baldassarre F., Tepore M., Guascito M. R., Tepore A., *Electrocatalytic Activity of α -MoO₃ Plates Synthesized Through Resistive Heating Route* (2018). *AISEM 2017: Sensors and Microsystems* pp 71-77.

20. Vergaro, V., a, Carata, E., Baldassarre, F., Panzarini, E., Dini, L., Carlucci, C., Leporatti, S., Scremin, B.F., Altamura, D., Giannini, C., Ciccarella, G. Scalable production of calcite nanocrystals by atomization process: Synthesis, characterization and biological interactions study. (2017) *Advanced Powder Technology* 28(10), pp. 2445-2455. doi.org/10.1016/j.appt.2016.12.018
19. Vergaro, V., Papadia, P., Petrini, P., Fanizzi, F.P., De Pascali, S.A., Baldassarre, F., Pastorino, L., Ciccarella, G. Nanostructured polysaccharidic microcapsules for intracellular release of cisplatin. (2017), *International Journal of Biological Macromolecules* 99, pp. 187-195 DOI: 10.1016/j.ijbiomac.2017.02.066
18. Guascito, M. R.; Chirizzi, D.; Filippo, E.; Baldassarre, F.; Tepore, M.; Tepore, A. Synthesis, characterization and electrochemical activity of α -MoO₃/Pt modified electrode to methanol oxidation. Riassunto di atto di convegno in volume. Programma del XXVI Congresso Nazionale della SCI Paestum (Salerno) 10-14 Settembre 2017 Divisione di Chimica Analitica. <http://hdl.handle.net/11587/418596>.
17. Filippo, E., Baldassarre, F., Tepore, M., Guascito, M., Chirizzi, D., Tepore, A. Characterization of Hierarchical α -MoO₃/Plates Toward Resistive Heating Synthesis: Electrochemical Activity of α MoO₃/Pt Modified Electrode Toward Methanol Oxidation in Neutral pH. (2017). *Nanotechnology* 28(21),215601.
16. Baldassarre, F.*, Allegretti, C., Tessaro, D., Carata, E., Citti, C., Vergaro, V., Nobile, C., Cannazza, G., D'Arrigo, P., Mele, A., Dini, L., Ciccarella G. Biocatalytic Synthesis of Phospholipids and Their Application as Coating Agents for CaCO₃ Nano-crystals: Characterization and Intracellular Localization Analysis. (2016), *ChemistrySelect*, 1, 6507 – 6514. doi.org/10.1002/slct.201601429
15. Capodilupo, A.-L., Vergaro, V., Accorsi, G., Fabiano, E., Baldassarre, F., Corrente, G.A., Gigli, G., Ciccarella, G. A series of diphenylamine-fluorenone derivatives as potential fluorescent probes for neuroblastoma cell staining (2016) *Tetrahedron*, 72 (22), pp. 2920-2928. DOI: 10.1016/j.tet.2016.04.012
14. Baldassarre, F., Foglietta, F., Vergaro, V., Barbero, N., Capodilupo, A.L., Serpe, L., Visentin, S., Tepore, A., Ciccarella, G. Photodynamic activity of thiophene-derived lysosome-specific dyes (2016) *Journal of Photochemistry and Photobiology B: Biology*, 158, pp. 16-22. DOI: 10.1016/j.jphotobiol.2016.02.013
13. Vergaro, V., Carata, E., Panzarini, E., Baldassarre, F., Dini, L., Ciccarella, G. Synthesis of calcium carbonate nanocrystals and their potential application as vessels for drug delivery. (2015), *AIP Conference Proceedings* 1667, 020014. doi: 10.1063/1.4922570.
12. Mancarella, S., Greco, V., Baldassarre, F., Vergara, D., Maffia, M., Leporatti, S. Polymer-Coated Magnetic Nanoparticles for Curcumin Delivery to Cancer Cells (2015) *Macromolecular Bioscience*, 15 (10), pp. 1365-1374. DOI: 10.1002/mabi.201500142
11. Baldassarre, F., Cacciola, M., Ciccarella, G. A predictive model of iron oxide nanoparticles flocculation tuning Z-potential in aqueous environment for biological application (2015) *Journal of Nanoparticle Research*, 17 (9), art. no. 377, 21 p. DOI: 10.1007/s11051-015-3163-6
10. Capodilupo, A.L., Vergaro, V., Fabiano, E., De Giorgi, M., Baldassarre, F., Cardone, A., Maggiore, A., Maiorano, V., Sanvitto, D., Gigli, G., Ciccarella, G. Design and synthesis of fluorenone-based dyes: Two-photon excited fluorescent probes for imaging of lysosomes and mitochondria in living cells (2015) *Journal of Materials Chemistry B*, 3 (16), pp. 3315-3323.

DOI: 10.1039/c4tb02116a

9. Filippo, E., Tepore, M., Baldassarre, F., Quarta, G., Calcagnile, L., Guascito, M.R., Tepore, A. Synthesis and characterization of large WO₃ sheets synthesized by resistive heating method (2015) *Materials Chemistry and Physics*, 165, pp. 134-141.

DOI: 10.1016/j.matchemphys.2015.09.007

8. Capodilupo, A.L., Vergaro, V., Baldassarre, F., Cardone, A., Corrente, G.A., Carlucci, C., Leporatti, S., Papadia, P., Gigli, G., Ciccarella, G. Thiophene-based fluorescent probes with low cytotoxicity and high photostability for lysosomes in living cells (2015) *Biochimica et Biophysica Acta - General Subjects*, 1850 (2), pp. 385-392.

DOI: 10.1016/j.bbagen.2014.10.010

7. Filippo, E., Tepore, M., Baldassarre, F., Siciliano, T., Micocci, G., Quarta, G., Calcagnile, L., Tepore, A. Synthesis of β-Ga₂O₃ microstructures with efficient photocatalytic activity by annealing of GaSe single crystal (2015) *Applied Surface Science*, 338, pp. 69-74.

DOI: 10.1016/j.apsusc.2015.02.105

6. Conciauro, F., Filippo, E., Carlucci, C., Vergaro, V., Baldassarre, F., D'Amato, R., Terranova, G., Lorusso, C., Congedo, P.M., Scremin, B.F., Ciccarella, G. Properties of nanocrystals-formulated aluminosilicate bricks (2015) *Nanomaterials and Nanotechnology*, 5 (1), art. no. 28.

DOI: 10.5772/61068

5. Del Mercato, L.L., Ferraro, M.M., Baldassarre, F., Mancarella, S., Greco, V., Rinaldi, R., Leporatti, S. Biological applications of LbL multilayer capsules: From drug delivery to sensing. (2014) *Advances in Colloid and Interface Science*, 207 (1), pp. 139-154. Cited 44 times.

DOI: 10.1016/j.cis.2014.02.014

4. Vergaro, V., Baldassarre, F., de Santis, F., Ciccarella, G., Giannelli, G., Leporatti, S. TGF-beta inhibitor-loaded polyelectrolyte multilayers capsules for sustained targeting of hepatocarcinoma cells (2012) *Current Pharmaceutical Design*, 18 (27), pp. 4155-4164.

DOI: 10.2174/138161212802430404

3. Baldassarre, F., Vergaro, V., Scarlino, F., De Santis, F., Lucarelli, G., Della Torre, A., Ciccarella, G., Rinaldi, R., Giannelli, G., Leporatti, S. Polyelectrolyte Capsules as Carriers for Growth Factor Inhibitor Delivery to Hepatocellular Carcinoma (2012) *Macromolecular Bioscience*, 12 (5), pp. 656-665.

DOI: 10.1002/mabi.201100457

2. Mazzocca, A., F. Baldassarre, et al. "277 LY2109761-LOADED MICROCAPSULES AS DRUG DELIVERY SYSTEM TO INHIBIT THE TGF-B1 PATHWAY IN HEPATOCELLULAR CARCINOMA." (2012), *Journal of Hepatology* 56: S115.

1. Vergaro, V., Scarlino, F., Bellomo, C., Rinaldi, R., Vergara, D., Maffia, M., Baldassarre, F., Giannelli, G., Zhang, X., Lvov, Y.M., Leporatti, S. Drug-loaded polyelectrolyte microcapsules for sustained targeting of cancer cells. (2011) *Advanced Drug Delivery Reviews*, 63 (9), pp. 847-864.