

# LISTA DE LUCRĂRI ȘTIINȚIFICE

**Miruna-Silvia STAN**

## **I. Teza de doctorat**

- 1) “Cercetări la nivel celular și molecular privind toxicitatea quantum dots de siliciu la nivelul celulelor pulmonare umane”. Noiembrie 2015. Coordonator: Prof. Dr. Anca Dinischiotu.

## **II. Brevet de invenție național**

- 1) Roman I., Eugeniu V., Trusca R., Soare M.L., Fratila C.V., Dinischiotu A., **Stan M.** Electrode și senzori electrochimici pentru măsurarea directă a conținutului de fosfați alcalini din soluții, în scopuri biomedicale. Brevet de invenție Nr. 128556 (OSIM). BOPI-Secțiunea Invenții nr. 8/2017. Data eliberării 30.08.2017, București, România.

## **III. Capitole de cărți în edituri internaționale**

- 1) Nica IC, **Stan MS**, Dinischiotu A. Metal/metal oxides for electrochemical DNA biosensing. In: Metal Oxides Series. Metal Oxides for Biomedical and Biosensor Applications (eds. Mondal K, Korotcenkov G), 1<sup>st</sup> edition, Elsevier Science Publishing Co Inc, Oxford, UK, 2021, p. 265-289. Print ISBN: 978-0-12-823033-6.
- 2) **Stan MS**, Strugari AFG, Balas M, Nica IC. Biomedical applications of carbon nanotubes with improved properties. In: Fullerenes, Graphenes and Nanotubes: A Pharmaceutical Approach (ed. Grumezescu AM), Elsevier, Oxford, UK, 2018, p. 31-65. Print ISBN: 978-0-12-813691-1.
- 3) **Stan MS**, Sima C, Dinischiotu A. Silicon Quantum Dots: From Synthesis to Bioapplications. In: Bioactivity of Engineered Nanoparticles (eds. Yan B, Zhou H, Gardea-Torresdey JL), Springer, Singapore, 2017, p. 339-359. Print ISBN: 978-981-10-5863-9.

## **IV. Articole publicate în reviste științifice cotate ISI**

- 1) Burdusel A-C, Neacsu IA, Birca AC, Chircov C, Grumezescu A-M, Holban AM, Curutiu C, Ditu LM, **Stan M**, Andronescu E. Microwave-assisted hydrothermal treatment of multifunctional substituted hydroxyapatite with prospective applications in bone regeneration. *J. Funct. Biomater.* 2023, 14(7), 378. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.17 (2022). Q2
- 2) Bîrcă AC, Gherasim O, Niculescu A-G, Grumezescu AM, Neacsu IA, Chircov C, Vasile BȘ, Oprea OC, Andronescu E, **Stan MS**, Curutiu C, Ditu LM, Holban AM. A microfluidic approach for synthesis of silver nanoparticles as a potential antimicrobial agent in alginate-hyaluronic acid-based wound dressings. *Int J Molec Sci.* 2023, 24(14), 11466. Impact Factor: 5.6 (2022), Scor relativ de influență: 2.264 (2022). Q2
- 3) Geana EI, Ciucure CT, Tamaian R, Marinas IC, Gaboreanu DM, **Stan M**, Chitescu CL. Antioxidant and wound healing bioactive potential of extracts obtained from bark and needles of softwood species. *Antioxidants* 2023; 12(7), 1383. Impact Factor: 7.0 (2022), Scor relativ de influență: 2.138 (2022). Q1
- 4) Marinescu G, Culita DC, Mocanu T, Mitran R-A, Petrescu S, **Stan MS\***, Chifiriuc MC, Popa M. New nanostructured materials based on mesoporous silica loaded with Ru(II)/Ru(III) complexes with anticancer and antimicrobial properties. *Pharmaceutics* 2023, 15(5), 1458. Impact Factor: 5.4 (2022), Scor relativ de influență: 1.174 (2022). Q1 \*contribuție egală cu primul autor

- 5) Voinea IC, Alistar CF, Banciu A, Popescu RG, Voicu SN, Nita-Lazar M, Vasile GG, Gheorghe S, Croitoru AM, Dolete G, Mihaiescu DE, Ficai A, Popa M, Marutescu L, Pircalabioru GG, Craciun N, Avramescu S, Marinescu GC, Chifiriuc MC, **Stan MS\***, Dinischiotu A. Snapshot of the pollution-driven metabolic and microbiota changes in *Carassius gibelio* from Bucharest leisure lakes. *Sci. Total Environ.* 2023, 884, 163810. Impact Factor: 9.8 (2022), Scor relativ de influență: 2.295 (2022). Q1 \*autor corespondent
- 6) Jawdhari A, Mihăilescu DF, **Stan MS**, Bălănescu M-V, Vlăsceanu R-I, Staicu CA, Crăciun N, Deák G. Ingestion of polyvinylchloride powder particles induces oxidative stress and hepatic histopathological changes in *Oreochromis niloticus* (Nile Tilapia)—a preliminary study. *Sustainability* 2023, 15(8), 6494. Impact Factor: 3.9 (2022), Scor relativ de influență: 0.843 (2022). Q3
- 7) Serban RM, Niculae D, Manda G, Neagoe I, Dobre M, Niculae DA, Temelie M, Mustăciosu C, Leonte RA, Chilug LE, Cornoiu MR, Cocioabă D, **Stan M**, Dinischiotu A. Modifications in cellular viability, DNA damage and stress responses inflicted in cancer cells by copper-64 ions. *Frontiers in Medicine* 2023, 10, 1197846. Impact Factor: 3.9 (2022), Scor relativ de influență: 1.519 (2022). Q2
- 8) Cepleanu-Pascu IA, **Stan M**, Cocioaba M, Stoica I. Easy method for six-fragment Golden Gate Assembly of modular vectors. *BioTechniques* 2023, 74(2), 85-99. Impact Factor: 2.7 (2022), Scor relativ de influență: 0.939 (2022). Q3
- 9) Nitulescu G, Mihai DP, Zanfirescu A, **Stan MS**, Gradinaru D, Nitulescu GM. Discovery of new microbial collagenase inhibitors. *Life* 2022; 12(12), 2114. Impact Factor: 3.2 (2022), Scor relativ de influență: 1.106 (2022). Q2
- 10) Chirila L, Popescu A, Cerempei A, Constantinescu RR, Olaru S, **Stan MS\***. Eco-friendly antibacterial and biocompatible coatings by applying cinnamon essential oil and propolis based emulsions on cotton textiles. *J. Nat. Fibers* 2022, 19(16), 14435-14448. Impact Factor: 3.5 (2022), Scor relativ de influență: 1.723 (2022). Q1 \*autor corespondent
- 11) Florea DA, Grumezescu V, Bîrcă AC, Vasile BȘ, Iosif A, Chircov C, **Stan MS**, Grumezescu AM, Andronescu E, Chifiriuc MC. Bioactive hydroxyapatite-magnesium phosphate coatings deposited by MAPLE for preventing infection and promoting orthopedic implants osteointegration. *Materials* 2022; 15(20), 7337. Impact Factor: 3.4 (2022), Scor relativ de influență: 1.659 (2022). Q1
- 12) Florea DA, Grumezescu V, Bîrcă AC, Vasile BȘ, Mușat M, Chircov C, **Stan MS**, Grumezescu AM, Andronescu E, Chifiriuc MC. Design, characterization, and antibacterial performance of MAPLE-deposited coatings of magnesium phosphate-containing silver nanoparticles in biocompatible concentrations. *Int. J. Mol. Sci.* 2022, 23(14), 7910. Impact Factor: 5.6 (2022), Scor relativ de influență: 2.264 (2022). Q2
- 13) Alistar CF, Nica IC, Nita-Lazar M, Vasile GG, Gheorghe S, Croitoru A-M, Dolete G, Mihaiescu DE, Ficai A, Craciun N, Gradisteanu Pircalabioru G, Chifiriuc MC, **Stan MS\***, Dinischiotu A. Antioxidative defense and gut microbial changes under pollution stress in *Carassius gibelio* from bucharest lakes. *Int. J. Environ. Res. Public Health* 2022, 19(12), 7510. Impact Factor: 2.468 (2022), Scor relativ de influență: 0 (2022). Q3 \*autor corespondent
- 14) Negut I, Ristoscu C, Tozar T, Dinu M, Parau AC, Grumezescu V, Hapenciuc C, Popa M, **Stan MS**, Marutescu L, Mihaiescu IN, Chifiriuc MC. Implant surfaces containing bioglasses and ciprofloxacin as platforms for bone repair and improved resistance to microbial colonization. *Pharmaceutics* 2022, 14(6), 1175. Impact Factor: 5.4 (2022), Scor relativ de influență: 1.174 (2022). Q2
- 15) Caciandone M, Niculescu A-G, Grumezescu V, Bîrcă AC, Ghica IC, Vasile BȘ, Oprea O, Nica IC, **Stan MS**, Holban AM, Grumezescu AM, Anghel I, Anghel AG. Magnetite nanoparticles

- functionalized with therapeutic agents for enhanced ENT antimicrobial properties. *Antibiotics* 2022, 11(5), 623. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.174 (2022). Q2
- 16) Gheorghe S, **Stan MS\***, Mitroi DN, Staicu AC, Cicirma M, Lucaciu IE, Nita-Lazar M, Dinischiotu A. Oxidative stress and histopathological changes in gills and kidneys of *Cyprinus carpio* following exposure to benzethonium chloride, a cationic surfactant. *Toxics* 2022, 10(5), 227. Impact Factor: 4.6 (2022), Scor relativ de influență: 1.259 (2022). Q1 \*autor corespondent
  - 17) Nica IC, Miu BA, **Stan MS\***, Diamandescu L, Dinischiotu A. Could iron-nitrogen doping modulate the cytotoxicity of TiO<sub>2</sub> nanoparticles? *Nanomaterials* 2022; 12(5):770. Impact Factor: 5.3 (2022), Scor relativ de influență: 1.557 (2022). Q2 \*autor corespondent
  - 18) Caciandone M, Niculescu A-G, Roșu AR, Grumezescu V, Negut I, Holban AM, Oprea O, Vasile BȘ, Bîrcă AC, Grumezescu AM, **Stan MS**, Anghel AG, Anghel I. PEG-functionalized magnetite nanoparticles for modulation of microbial biofilms on voice prosthesis. *Antibiotics* 2022; 11(1), 39. Impact Factor: 4.8 (2022), Scor relativ de influență: 1.174 (2022). Q2
  - 19) Lungulescu E-M, Setnescu R, Pătroi EA, Lungu MV, Pătroi D, Ion I, Fierăscu R-C, Șomoghi R, **Stan M**, Nicula N-O. High-efficiency biocidal solution based on radiochemically synthesized Cu-Au alloy nanoparticles. *Nanomaterials* 2021; 11(12):3388. *Nanomaterials* 2021, 11, 323. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
  - 20) Spirescu VA, Niculescu A-G, Slave Ș, Bîrcă AC, Dorcioman G, Grumezescu V, Holban AM, Oprea O-C, Vasile BȘ, Grumezescu AM, Nica IC, **Stan MS**, Andronescu E. Anti-biofilm coatings based on chitosan and lysozyme functionalized magnetite nanoparticles. *Antibiotics* 2021, 10(10), 1269. Impact Factor: 5.222 (2021), Scor relativ de influență: 1.256 (2021). Q2
  - 21) Avram S, **Stan MS**, Udrea AM, Buiu C, Boboc AA, Mernea M. 3D-ALMOND-QSAR models to predict the antidepressant effect of some natural compounds. *Pharmaceutics* 2021, 13(9), 1449. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
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  - 23) Puiu RA, Balaure PC, Constantinescu E, Grumezescu AM, Andronescu E, Oprea O, Vasile BS, Grumezescu V, Negut I, Nica IC, **Stan MS**. Anti-cancer nanopowders and MAPLE-fabricated thin coatings based on SPIONs surface modified with paclitaxel loaded  $\beta$ -cyclodextrin. *Pharmaceutics* 2021, 13(9), 1356. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2 \*ultimul autor
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  - 25) Brandão F, Costa C, Bessa MJ, Dumortier E, Debaq-Chainiaux F, Hubaux R, Salmon M, Laloy J, **Stan MS**, Hermenean A, Gharbia S, Dinischiotu A, Bannuscher A, Hellack B, Haase A, Fraga S, Teixeira JP. Genotoxicity and gene expression in the rat lung tissue following instillation and inhalation of different variants of amorphous silica nanomaterials (aSiO<sub>2</sub> NM). *Nanomaterials* 2021, 11(6), 1502. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
  - 26) Onita B, Albu P, Herman H, Balta C, Lazar V, Fulop A, Baranyai E, Harangi S, Keki S, Nagy L, Nagy T, Józsa V, Gál D, Györe K, **Stan M**, Hermenean A, Dinischiotu A. Correlation between heavy metal-induced histopathological changes and trophic interactions between different fish species. *Appl. Sci.* 2021, 11(9), 3760. Impact Factor: 2.838 (2021), Scor relativ de influență: 0.885 (2021). Q3

- 27) Scomoroscenco C, Teodorescu M, Raducan A, **Stan M**, Voicu SN, Trica B, Ninciuleanu CM, Nistor CL, Mihaescu CI, Petcu C, Cinteza LO. Novel gel microemulsion as topical drug delivery system for curcumin in dermatocosmetics. *Pharmaceutics* 2021, 13(4), 505. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
- 28) Tănase MA, Raducan A, Oancea P, Dițu LM, **Stan M**, Petcu C, Scomoroscenco C, Ninciuleanu CM, Nistor CL, Cinteza LO. Mixed Pluronic—Cremophor polymeric micelles as nanocarriers for poorly soluble antibiotics—the influence on the antibacterial activity. *Pharmaceutics* 2021, 13(4), 435. Impact Factor: 6.525 (2021), Scor relativ de influență: 1.334 (2021). Q2
- 29) Gherasim O, Grumezescu AM, Grumezescu V, Negut I, Dumitrescu MF, **Stan MS**, Nica IC, Holban AM, Socol G, Andronescu E. Bioactive coatings based on hydroxyapatite, kanamycin and growth factor for biofilm modulation. *Antibiotics* 2021, 10, 160. Impact Factor: 5.222 (2021), Scor relativ de influență: 1.256 (2021). Q2
- 30) **Stan MS**, Badea S, Hermenean A, Hildegard H, Trica B, Sbarcea BG, Dinischiotu A. New insights into the cell death signaling pathways triggered by long-term exposure to silicon-based quantum dots in human lung fibroblasts. *Nanomaterials* 2021, 11, 323. Impact Factor: 5.719 (2021), Scor relativ de influență: 1.595 (2021). Q2
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- 32) Gheorghe S, Mitroi DN, **Stan MS\***, Staicu CA, Cicirma M, Lucaciu IE, Nita-Lazar M, Dinischiotu A. Evaluation of sub-lethal toxicity of benzethonium chloride in *Cyprinus carpio* liver. *Appl. Sci.* 2020, 10, 8485. Impact Factor: 2.679 (2020), Scor relativ de influență: 0.923 (2020). Q3 \*autor corespondent
- 33) Bannuscher A, Hellack B, Bahl A, Laloy J, Herman H, **Stan MS**, Dinischiotu A, Giusti A, Krause BC, Tentschert J, Rosu M, Balta C, Hermenean A, Wiemann M, Luch A, Haase A. Metabolomics profiling to investigate nanomaterial toxicity in vitro and in vivo. *Nanotoxicology* 2020, 14(6), 807-826. Impact Factor: 5.913 (2020), Scor relativ de influență: 1.597 (2020). Q1
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- 35) Popescu-Pelin G, Ristoscu C, Duta L, Stan GE, Pasuk I, Tite T, **Stan MS**, Bleotu C, Popa M, Chifiriuc MC, Oktar FN, Nicarel A, Mihailescu IN. Antimicrobial and cytocompatible bovine hydroxyapatite-alumina-zeolite composite coatings synthesized by pulsed laser deposition from low-cost sustainable natural resources. *ACS Sustain. Chem. Eng.* 2020, 8(10), 4026-4036. Impact Factor: 8.198 (2020), Scor relativ de influență: 3.314 (2020). Q1
- 36) Scarisoreanu M, Ilie AG, Goncarencu E, Banici AM, Morjan IP, Dutu E, Tanasa E, Fort I, **Stan M**, Mihailescu CN, Fleaca C. Ag, Au and Pt decorated TiO<sub>2</sub> biocompatible nanospheres for UV & vis photocatalytic water treatment. *Appl. Surf. Sci.* 2020, 509(15), 145217. Impact Factor: 6.707 (2020), Scor relativ de influență: 2.163 (2020). Q1
- 37) **Stan MS\***, Mernea M, Cristian RE, Mohammad IJ, Sbarcea BG, Trica B, Dinischiotu A. Correlating the serum albumin corona of zinc oxide nanoparticles with their physico-chemical properties. *Rom. Rep. Phys.* 2020, 72(1), 602. Impact Factor: 2.147 (2020), Scor relativ de influență: 0.532 (2020). Q4 \*autor corespondent
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