

**List of publications and book chapters**  
*T.A. PhD Andreea-Maria CAMPU*

**Articles in ISI Journals**

\* Green background – Articles published as First or Corresponding Author

<u>Nr.</u>	<u>Title</u>	<u>Authors</u>	<u>Journal</u>	<u>Year</u>	<u>IF</u>	<u>AIS</u>	<u>DOI</u>	<u>Category Quartile</u>
1.	<i>Innovative Bio(Nano)Sensor Designs for Cortisol Stress Hormone Detection: A Continuous Progress</i>	A. Nicolae-Maranciuc, D. Chicea, <b>A. Campu</b>	<b>Processes</b>	<b>2026</b>	2.8	0.454	10.3390/pr14020239	<i>Q3</i>
2.	<i>Comparative and Optimized Chemical Synthesis of AgNPs for Improved Surface Reactivity and Potential Biosensing Applications</i>	A. Nicolae-Maranciuc, I. A. Brezestean, S. C. Tripon, <b>A. Campu</b>	<b>Nanomaterials</b>	<b>2025</b>	4.3	0.675	10.3390/nano15231749	<i>Q2</i>
3.	<i>LED-Activated NIR-II Gold Nanorods for Photothermal Therapy of 3D Melanoma Spheroid Model</i>	A. Holca, R. Borlan, <b>A. Campu</b> , S. Dragan, M. Muntean, A. M. Craciun, A. Sesarman, M. Banciu, S. Astilean, M. Lamy de la Chapelle, M. Focsan	<b>ACS Applied Nano Materials</b>	<b>2025</b>	5.5	0.861	10.1021/acsnano.5c03202	<i>Q2</i>
4.	<i>Advancing Thermoplasmonic Sensing: Gold Nanopyramids for Enhanced Light-to-Heat Conversion</i>	<b>A. Campu</b> , I. A. Brezestean, S. C. Tripon, S. Astilean, M. Focsan	<b>Journal of Materials Chemistry C</b>	<b>2025</b>	5.1	0.968	10.1039/D5TC01502B	<i>Q2</i>
5.	<i>Graphene- Poly(methacrylic acid)-Gold bipyramids hybrid plasmonic nanocomposite for in vitro bioimaging and photothermal therapy</i>	D. Stoia, E. Fazio, C. Corsaro, <b>A. Campu</b> , O. Soritau, A. M. Craciun, G. Chereches, M. Focsan, G. Neri, A. Piperno	<b>Journal of Materials Chemistry B</b>	<b>2025</b>	5.7	0.921	10.1039/D5TB00097A	<i>Q2</i>
6.	<i>Correlation between Plasmonic and Thermal Properties of Metallic Nanoparticles</i>	I. Abid, J. Gonzalez-Colsa, C. Naveau, <b>A. Campu</b> , C. Arib, M. Focșan, P. Albella, M. Edely, M. Lamy de la Chapelle	<b>Nanomaterials</b>	<b>2024</b>	4.3	0.674	10.3390/nano14100820	<i>Q2</i>
7.	<i>Portable Microfluidic Plasmonic Chip for Fast Real-Time Cardiac Troponin I Biomarker Localized Surface Plasmon Resonance Detection</i>	<b>A. Campu</b> , I. Muresan, M. Potara, D. R. Lazar, F. L. Lazar, S. Cainap, D. M. Olinic, D. Maniu, S. Astilean, M. Focsan	<b>Journal of Materials Chemistry B</b>	<b>2024</b>	5.7	0.921	10.1039/D3TB02190D	<i>Q2</i>

8.	<i>Innovative, Flexible and Miniaturized Microfluidic Paper-based Plasmonic Chip for Efficient Near-Infrared Metal Enhanced Fluorescence Biosensing and Imaging</i>	<b>A. Campu</b> , I. Muresan, A. M. Craciun, A. Vulpoi, S. Astilean, M. Focsan	<b>ACS Applied Materials &amp; Interfaces</b>	<b>2023</b>	8.3	1.568	10.1021/acsam.i.3c08658	<i>Q1</i>
9.	<i>No country for old antibiotics! Antimicrobial peptides (AMPs) as next-generation treatment for skin and soft tissue infection</i>	M. Raileanu, R. Borlan, <b>A. Campu</b> , L. Janosi, I. Turcu, M. Focsan, M. Bacalum	<b>International Journal of Pharmaceutics</b>	<b>2023</b>	5.3	0.748	10.1016/j.ijpharm.2023.123169	<i>Q2</i>
10.	<i>NIR photothermal-activable drug-conjugated microcapsules for in vitro targeted delivery and release: an alternative treatment of diabetic retinopathy</i>	D. Stoia, M. Nistor, M. Suciu, R. Borlan, <b>A. Campu</b> , D. Rugina, D. Maniu, S. Astilean, M. Focsan	<b>International Journal of Pharmaceutics</b>	<b>2023</b>	5.3	0.748	10.1016/j.ijpharm.2023.122700	<i>Q2</i>
11.	<i>Assessing the Efficiency of Triangular Gold Nanoparticles as NIR Photothermal Agents In Vitro and Melanoma Tumor Model</i>	S. Suarasan, <b>A. Campu</b> , A. Vulpoi, M. Banciu, S. Astilean	<b>International Journal of Molecular Sciences</b>	<b>2022</b>	5.6	1.028	10.3390/ijms232213724	<i>Q2</i>
12.	<i>Hybrid Polymeric Therapeutic Microcarriers for Thermoplasmonic-Triggered Release of Resveratrol</i>	D. Stoia, R. Pop, <b>A. Campu</b> , M. Nistor, S. Astilean, A. Pintea, M. Suciu, D. Rugina, M. Focsan	<b>Colloids and Surfaces B: Biointerfaces</b>	<b>2022</b>	5.8	0.693	10.1016/j.colsurfb.2022.112915	<i>Q2</i>
13.	<i>Cardiac Troponin Biosensor Designs: Current Developments and Remaining Challenges</i>	<b>A. Campu</b> , I. Muresan, A. M. Craciun, S. Cainap, S. Astilean, M. Focsan	<b>International Journal of Molecular Sciences</b>	<b>2022</b>	5.6	1.028	10.3390/ijms23147728	<i>Q2</i>
14.	<i>Fluorescent phthalocyanine-encapsulated bovine serum albumin nanoparticles: their deployment as therapeutic agents in the NIR region</i>	R. Borlan, D. Stoia, L. Gaina, <b>A. Campu</b> , G. Marc, M. Perde-Schrepler, M. Sillion, D. Maniu, M. Focsan, S. Astilean	<b>Molecules</b>	<b>2021</b>	4.927	0.671	10.3390/molecules26154679	<i>Q2</i>
15.	<i>Ultrasensitive SEIRA Detection using Gold Nanobipyramids: toward Efficient Multimodal Immunosensor</i>	<b>A. Campu</b> , F. Lerouge, D. Maniu, K. Magyari, M. Focsan	<b>Journal of Molecular Structure</b>	<b>2021</b>	3.841	0.315	10.1016/j.molstruc.2021.131160	<i>Q4</i>
16.	<i>Antibody Functionalized Theranostic Protein Nanoparticles for Synergistic Deep Red Fluorescence Imaging and Multimodal Therapy of Ovarian Cancer</i>	R. Borlan, M. Focsan, M. Perde-Schrepler, O. Soritau, <b>A. Campu</b> , L. Gaina, E. Pall, B. Pop, O. Baldasici, C. Gherman, D. Stoia, D. Maniu, S. Astilean	<b>Biomaterials Science</b>	<b>2021</b>	7.59	1.079	10.1039/D1B M01002F	<i>Q1</i>

17.	<i>Versatile Polypeptide-Functionalized Plasmonic Paper as Synergistic Biocompatible and Antimicrobial Nanoplatform</i>	L. Tie, M. Răileanu, M. Bacalum, I. Codita, S. M. Negrea, C. S. Caracoti, E.-C. Drăgulescu, <b>A. Campu</b> , S. Astilean, M. Focsan	<b>Molecules</b>	<b>2020</b>	4.411	0.694	10.3390/molecules25143182	<i>Q2</i>
18.	<i>ICG-loaded gold bipyramids with NIR activatable dual PTT-PDT therapeutic potential in melanoma cells</i>	<b>A. Campu</b> , M. Focsan, F. Lerouge, R. Borlan, L. Tie, D. O. Rugina, S. Astilean	<b>Colloids and Surfaces B: Biointerfaces</b>	<b>2020</b>	5.268	0.711	10.1016/j.colsurfb.2020.111213	<i>Q2</i>
19.	<i>Calligraphed Selective Plasmonic Array on Paper Platform for Complementary Dual Optical "ON/OFF Switch" Sensing</i>	L. Susu, <b>A. Campu</b> , S. Astilean, M. Focsan	<b>Nanomaterials</b>	<b>2020</b>	5.076	0.759	10.3390/nano10061025	<i>Q2</i>
20.	<i>Microfluidic Platform for Integrated Plasmonic Dual Detection</i>	<b>A. Campu</b> , F. Lerouge, A. M. Craciun, T. Murariu, I. Turcu, S. Astilean, M. Focsan	<b>Nanotechnology</b>	<b>2020</b>	3.874	0.680	10.1088/1361-6528/ab8e72	<i>Q2</i>
21.	<i>Controlling the End-To-End Assembly of Gold Nanorods to Enhance the Plasmonic Response in Near Infrared</i>	L. Tie, M. Focsan, J. Bosson, C. Tira, <b>A. Campu</b> , A. Vulpoi, S. Astilean	<b>Materials Research Express</b>	<b>2019</b>	1.929	0.229	10.1088/2053-1591/ab2eb0	<i>Q3</i>
22.	<i>Assessment of the Photothermal Conversion Efficiencies of Tunable Gold Bipyramids under Irradiation by Two Laser Lines in NIR Biological Window</i>	<b>A. Campu</b> , A. M. Craciun, M. Focsan, S. Astilean	<b>Nanotechnology</b>	<b>2019</b>	3.551	0.706	10.1088/1361-6528/ab2d90	<i>Q2</i>
23.	<i>Multimodal Biosensing on Paper-Based Platform Fabricated by Plasmonic Calligraphy Using Gold Nanobipyramids Ink</i>	<b>A. Campu</b> , L. Susu, F. Orzan, D. Maniu, A.M. Craciun, A. Vulpoi, L. Roiban, M. Focsan, S. Astilean	<b>Frontiers in Chemistry</b>	<b>2019</b>	3.693	0.869	10.3389/fchem.2019.00055	<i>Q2</i>
24.	<i>Designing Efficient Low-Cost Paper-Based Sensing Plasmonic Nanoplatforms</i>	L. Susu*, <b>A. Campu*</b> , A.M. Craciun, A. Vulpoi, S. Astilean, M. Focsan	<b>Sensors</b>	<b>2018</b>	3.031	0.517	10.3390/s18093035	<i>Q2</i>
25.	<i>Gold NanoBipyramids Performing as Highly Sensitive Dual-Modal Optical Immunosensors</i>	<b>A. Campu</b> , F. Lerouge, D. Chateau, F. Chaput, P. Baldeck, S. Parola, D. Maniu, A.M. Craciun, A. Vulpoi, S. Simion, M. Focsan	<b>Analytical Chemistry</b>	<b>2018</b>	6.35	1.348	10.1021/acs.analchem.8b01689	<i>Q1</i>
26.	<i>A simple and efficient design to improve the detection of biotin-streptavidin interaction with plasmonic nanobiosensors</i>	M. Focsan, <b>A. Campu</b> , C. Leordean, M. Potara, A. Gabudean, D. Maniu, S. Astilean	<b>Biosensors and Bioelectronics</b>	<b>2016</b>	7.78	1.178	10.1016/j.bios.2016.07.054	<i>Q1, Top 1</i>

### Articles in NON-ISI Journals

<u>Nr.</u>	<u>Title</u>	<u>Authors</u>	<u>Journal</u>	<u>Year</u>	<u>IF</u>	<u>AIS</u>	<u>DOI</u>	<u>Category Quartile</u>
1.	<i>Engineered Paper Platform loaded with Gold Nanospheres to improve SERS Performance for Analyte Detection</i>	F. Orzan, <b>A. Campu</b> , S. Suarasan, S. Astilean, M. Focsan	Studia UBB Physica	2018	-	-	10.24193/subbphys.2018.15	-

### Book Chapters

\* Green background – Articles published as First Author

<u>Nr.</u>	<u>Title</u>	<u>Authors</u>	<u>Publisher</u>	<u>Year</u>	<u>ISBN</u>	<u>DOI</u>
1.	<i>Chapter 10. Synergistic nano-photodynamic therapy/nano-photothermal therapy combination</i>	R. Borlan, A. Campu, M. Focsan, S. Astilean	<b>NanoPDT Nanomaterials-Enhanced Photodynamic Therapy and Combination Approaches; Academic Press - Elsevier</b>	<b>2026</b>	978-0-443-40431-3	10.1016/B978-0-443-40431-3.00003-7
2.	<i>Chapter 8. Advanced nanostructures for microbial contaminants detection by means of spectroscopic methods</i>	M. Potara*, <b>A. Campu*</b> , D. Maniu*, M. Focsan*, I. Botiz*, S. Astilean*	<b>Elsevier</b>	<b>2020</b>	978-0-12-815882-1	10.1016/B978-0-12-815882-1.00008-2

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PhD Andreea-Maria CÂMPU

