

## LIST OF SCIENTIFIC PUBLICATIONS

### ► Doctoral thesis, published as a **book**

*Ordered Plasmonic Nanostructures: from Fabrication to Relevant Applications in Optical Spectroscopy and Sensing*, GRIN Publishing GmbH Munich, ISBN (eBook) 978-3-656-91121-0; ISBN (Book) 978-3-656-91122-7.

### ► **Book chapters**

C. Farcau, S. Astilean, *Surface Enhanced Raman Scattering: Fundamentals and Biosensing Applications*, capitol in *Handbook on Enhanced Spectroscopies*, (Eds. Pietro Gucciardi, Nathalie Lidgi, Marc Lamy de la Chapelle), Pan Stanford Publishing, 2015, ISBN 9789814613323.

M. Potara, C. Farcau, I. Botiz, S. Astilean, *Detection of environmental pollutants by surface-enhanced Raman spectroscopy*, capitol in *Advanced Environmental Analysis: Applications of Nanomaterials*, Eds. Chaudhery Mustansar Hussain and Boris Kharisov, Royal Society of Chemistry 2016, Print ISBN: 978-1-78262-144-7.

### ► **Articles in impact factor (Web of Science) journals**

1. R. Moldovan, E. Vereshchagina, K. Milenko, B.-C. Iacob, A. E. Bodoki, A. Falamas, N. Tosa, C. M. Muntean, C. Farcau, E. Bodoki, *Review on combining surface-enhanced Raman spectroscopy and electrochemistry for analytical applications*, **Anal. Chim. Acta 2022 in press**.
2. N. Nechita, C. Farcau, *Tuning plasmons of metal-coated microsphere arrays towards optimized surface-enhanced spectroscopy*, **Opt. Express 2021**, 29, 42238.
3. C. Farcau, *Silver film over nanospheres (AgFoN) as tri-modal plasmonic sensing platform for Surface Plasmon Resonance Spectroscopy, Surface-Enhanced Raman Scattering, and Surface-Enhanced Fluorescence*, **J. Mol. Struct. 2021**, 1250, 131583.
4. R. Moldovan, B.-C. Iacob, C. Farcau, E. Bodoki, R. Oprean, *Strategies for SERS detection of organochloride pesticides*, **Nanomaterials 2021**, 11, 304.
5. C. Farcau, A. M. Craciun, R. A. L. Vallee, *Surface-Enhanced Fluorescence Imaging on Linear Arrays of Plasmonic Half-Shells*, **J. Chem. Phys. 2020**, 153, 174601.

6. R. Tarcan, M. Handrea-Dragan, O. Todor-Boer, I. Petrovai, [C. Farcau](#), M. M. Rusu, A. Vulpoi Lazar, M. Todea, S. Astilean, *A new, fast and facile synthesis method for reduced graphene oxide in N,N-dimethylformamide*, **Synth. Met.** **2020**, *269*, 116576.
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14. I. Botiz, M.A. Codescu, [C. Farcau](#), C. Leordean, S. Astilean, C. Silva, N. Stingelin, *Convective self-assembly of pi-conjugated oligomers and polymers*, **J. Mat. Chem. C** **2017**, *5*, 2513.
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