

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. C. Farcau, *Metal-coated microsphere monolayers as surface plasmon resonance sensors operating in both transmission and reflection modes*, **Sci. Rep.** **2019**, 9, 3683.
2. A. Falamas, V. Tosa, C. Farcau, *Hybrid architectures made of nonlinear-active and metal nanostructures for plasmon-enhanced harmonic generation*, **Opt. Mater.** **2019**, 88, 653.
3. C. Tira I. Ly, R. Vallee, S. Astilean, C. Farcau, *Shaping light spectra and field profiles in metal-coated monolayers of etched microspheres*, **Opt. Mat. Express** **2017**, 7, 2847.
4. D. Zaharie-Butucel, L. Digianantonio, C. Leordean, L. Ressler, S. Astilean, C. Farcau, *Flexible transparent sensors from reduced graphene oxide micro-strips fabricated by convective self-assembly*, **Carbon** **2017**, 113, 361.
5. 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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8. S. Boca, C. Farcau, M. Baia, S. Astilean, *Metanephrine neuroendocrine tumor marker detection by SERS using Au nanoparticle / Au film sandwich architecture*, **Biomed. Microdev.** **2016**, 18, 12.
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10. L. Constantin, M. Braic, M. Dinu, M. Balaceanu, V. Braic, C. Farcau, A. Vladescu, *Effects of Zr, Nb, or Si addition on the microstructural, mechanical, and corrosion resistance of TiCN hard coatings*, **Mater. Corros.** **2016**, 67, 929.
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► **Alte jurnale din baze de date**

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