

FARCĂU Cosmin-Adrian

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. ([WoS](#))

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, Book Series: RSC Detection Science Series, Volume9, Page479-503. Royal Society of Chemistry 2017, Print ISBN: 978-1- 78262-144-7; ISSN2052-3068. ([WoS](#), Article; Book Chapter)

► Articles in WoS-indexed, IF-journals

1. A. Falamas, D. Cuibus, N. Tosa, I. Brezestean, C. M. Muntean, K. Milenko, E. Vereshchagina, R. Moldovan, E. Bodoki, **C. Farcau**, *Toward microfluidic SERS and EC-SERS applications via tunable gold films over nanospheres*, **Discover Nano** **2023**, **18**, 73.
2. C. M. Muntean, D. Cuibus, S. Boca, A. Fălămaș, N. Toşa, I. Brezeștean, A. Bende, L. Barbu-Tudoran, R. Moldovan, E. Bodoki, **C. Farcău**, *Gold vs silver colloidal nanoparticle films for optimized SERS detection of propranolol and electrochemical-SERS analyses*, **Biosensors** **2023**, **13**, 530.
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5. R. Moldovan, K. Milenko, E. Vereshchagina, B.-C. Iacob, K. Schneider, **C. Farcău**, E. Bodoki, *EC-SERS Detection of Thiabendazole in Apple Juice Using Activated Screen-Printed Electrodes*, **Food Chem.** **2023**, **405**, 134713.
6. R. Tarcan, M. Handrea-Dragan, C.-I. Leordean, R. C. Cioban, Z. Kiss, D. Zaharie-Butucel, **C. Farcau**, A. Vulpoi, S. Simon, I. Botiz, *Development of PMMA/RGO Composite Films as Thermal Interface Materials*, **J. Appl. Polym. Sci.** **2022**, **139**, e53238.

7. I. Brezestean, N. Tosa, A. Falamas, D. Cuibus, C. M. Muntean, A. Bende, B. Cozar, C. Berghian-Grosan, **C. Farcau**, *Silver nanoparticle films obtained by convective self-assembly for surface-enhanced Raman spectroscopy analyses of the pesticides thiabendazole and endosulfan*, **Front. Chem.** **2022**, *10*, 915337.
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9. I. Marica, F. Nekvapil, M. Ştefan, **C. Farcau**, A. Falamaş, *Zinc oxide nanostructures for fluorescence and Raman signal enhancement: a review*, **Beilstein J. Nanotechnol.** **2022**, *13*, 472.
10. A.-S. Tatar, **C. Farcau**, A. Vulpoi, S. Boca, S. Astilean, *Development and evaluation of a gold nanourchin (GNU)-based sandwich architecture for SERS immunosensing in liquid*, **Spectrochim. Acta A: Mol. Biomol. Spectrosc.** **2022**, *273*, 121069.
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