

**Jméno, příjmení, titul žadatele:**

**Given name, surname, academic degree of student:**

**Burda Milan, Ing.**

**Seznam publikovaných prací:**

Publikace související s DP publikované (nebo přijaté k publikaci) s afiliací FJFI ČVUT v impaktovaném časopise (dle WoS) v přehledu označit.

**List of publications:**

In the list, mark publications related to the dissertation published (or accepted for publication) with affiliation of FJFI ČVUT in a journal with IF (according to WoS).

- [1] **Milan Burda**, Ivan Richter, Pavel Kwiecien, Generalized nonlocal hydrodynamical model with viscous and radiative damping, *to be submitted to JOSAA*, 2023.
- [2] Ladislav Kalvoda, Jaroslava Jakoubková, **Milan Burda**, Pavel Kwiecien, Ivan Richter, Jaromír Kopeček, Fiber Optic Sensor of Ammonia Gas Using Plasmonic Extraordinary Optical Transmission, *submitted to Sensors*, 2023.
- [3] **Milan Burda**, Ivan Richter, Pavel Kwiecien, Nonlocal response of the planar metal layers, *submitted to Plasmonics*, 2023.
- [4] Pavel Kwiecien, **Milan Burda**, Ivan Richter, A nonlocal Fourier modal method for analyzing nonlocal plasmonic periodic nanostructures, *Journal of the Optical Society of America B* 40, 491 (2023).
- [5] **Milan Burda**, Pavel Kwiecien, Ivan Richter, A nonlocal Transfer matrix and Fourier modal methods for analyzing nonlocal plasmonic nanostructures, oral presentation, Photonics West, San Francisco, CA, USA, 28.2. – 2.3.2023.
- [6] Pavel Kwiecien, Lucie Marešová, **Milan Burda**, Ivan Richter, Ladislav Kalvoda, A resonant field enhancement in plasmonic multistep structures: theoretical assessment, oral presentation, Photonics West, San Francisco, CA, USA, 28.2. – 2.3.2023.
- [7] Pavel Kwiecien, **Milan Burda**, Ivan Richter, Nonlocal Fourier modal method, ECIO - European Conference on Integrated Optics, Milano, Italy, May 2022, pp. 183 -185.
- [8] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal interactions in planar metal layers, ECIO - European Conference on Integrated Optics, Milano, Italy, May 2022, pp. 186 -188.
- [9] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Analytical and numerical treatment of nonlocal nanoplasmonic resonant effects, SPIE PhotonicsWest, [11289-68] - Photonic and Phononic Properties of Engineered Nanostructures X, San Francisco, CA, USA, February 2020.

- [10] Pavel Kwiecien, **Milan Burda**, I. Richter, Numerical treatment of nonlocal nanoplasmonic resonant effects with periodic and aperiodic Fourier modal method, ICTON 2019 - 21st International Conference on Transparent Optical Networks and 1th Sub-Wavelength Photonics Conference SWP 2019, Angers, France, July 2019.
- [11] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal and quantum nanoplasmonic resonance effects: analytical and numerical treatment, [10921-54] oral presentation, SPIE Photonics West, San Francisco, CA, USA, February 2019.
- [12] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Analytical and numerical analysis of nonlocal and quantum nanoplasmonic resonance effects, SPIE Optics + Optoelectronics Prague, [11025-28] – Metamaterials, Prague, Czech Republic, April 2019.
- [13] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal and quantum nanoplasmonic resonance effects: analytical and numerical treatment, [10824-33] oral presentation, SPIE Photonics Asia, Beijing, People's Republic of China, October 2018.
- [14] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal hydrodynamical models in nanoplasmonics – analytical and numerical approaches, [10722-107] poster presentation, SPIE Optics & Photonics, San Diego, USA, August 2018.
- [15] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal and quantum resonance behavior in plasmonics nanostructures: analysis and simulations, [10671-73] poster presentation, SPIE Photonics Europe, Strasbourg, France, April 2018.
- [16] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Nonlocal nanoplasmonic resonance phenomena, FNSPE student summer school SSCSSPM8, Nepomuk, CZ, September 2018.
- [17] **Milan Burda**, Pavel Kwiecien, Jan Fiala, Ivan Richter, Nonlocal resonances in nanoplasmonics: analysis and simulations, oral talk, paper [10227-24], SPIE Optics+Optoelectronics 2017, April 2017, Prague, Czech Republic.
- [18] **Milan Burda**, Pavel Kwiecien, Ivan Richter, Jan Fiala, Paper 49, Nonlocal plasmonic resonant interactions – theoretical studies: analytical and numerical approaches,” poster presentation, NanoQI – Nanotechnology meets quantum information 2017, July 2017, Donostia- San Sebastián, Spain.
- [19] **Milan Burda**, P. Kwiecien, I. Richter, J. Fiala, Studies on nonlocal plasmonic resonances: analytical and numerical approaches, oral + poster presentation, Paper JTU3A.113, OSA Frontiers in Optics – Laser Sciences Conference, September 2017, Washington, DC, USA.
- [20] Ivan Richter, Pavel Kwiecien, Jan Fiala, Jakub Lelek, **Milan Burda**, Jiří Pirunčík, Vladimír Kuzmiak, Jiří Čtyroký, Jiří Petráček, Novel effects and functionalities in subwavelength photonic and plasmonic structures - Theoretical studies and simulations,"invited talk, April 2017, VŠB – TU Ostrava, Ostrava, Czech Republic.
- [21] **Milan Burda**, Pavel Kwiecien, Jan Fiala, Ivan Richter, Local and nonlocal responses in nanoplasmonics, In: Abstract Book, SCPOC 2016 - 20th Slovak-Czech-Polish Optical Conference on Wave and Quantum Aspects of Contemporary Optics (Jasná, Slovakia, 5-9 September 2016), p. 69