

Seznam publikací a jiných výsledků vědecké práce – Ivana Šloufova

1. **recenzované články v mezinárodních časopisech (cizojazyčné).** Impakt faktory jsou uváděny platné k roku vyjítí publikace (mimo rok 2022).
 1. Zurkova-Kokoskova, M.; **Šloufova, I.**; Gajdosova, V.; Vlckova, B. Plasmon-Catalysed Decarboxylation of Dicarboxybipyridine Ligands in Ru(II) Complexes Chemisorbed on Ag Nanoparticles: Conditions, Proposed Mechanism and Role of Ag(0) Adsorption Sites. *Phys. Chem. Chem. Phys.* **2022**, 24 (24), 15034–15047. <https://doi.org/10.1039/d2cp00765g>. IF(2021) = 3.945
 2. Kozisek, J.; Svoboda, J.; Zednik, J.; Vlckova, B.; **Šloufova, I.** Resonance Raman Excitation Profiles of Fe(II)-Terpyridine Complexes: Electronic Effects of Ligand Modifications. *J. Phys. Chem. B* **2021**, 125 (46), 12847–12858. <https://doi.org/10.1021/acs.jpcc.1c08366>. IF = 3.466
 3. Jezkova, M.; Jelinek, P.; **Šloufova, I.**; Soos, M. Size, shape and surface structure of gold snowflake-like particles tailored by the addition of monovalent and divalent inorganic salts *Surf. Interfaces* **2021**, 25, 101160. <https://doi.org/10.1016/j.surf.2021.101160>. IF = 6.137
 4. Kuritka, I.; Sedlarik, V.; Harea, D.; Harea, E.; Urbanek, P.; **Šloufova, I.**; Coufal, R.; Zednik, J. Polymer Labelling with a Conjugated Polymer-Based Luminescence Probe for Recycling in the Circular Economy. *Polymers (Basel)*. **2020**, 12 (6). <https://doi.org/10.3390/polym12061226>. IF = 4.329
 5. **Šloufova, I.**; Slouf, M.; Vlckova, B.; Gajdosova, V.; Zednik, J.; Vohlidal, J. Controlled Tuning of the Size of Ag-Hydrosol Nanoparticles by Nonstabilized THF and Detection of Peroxides in THF. *Langmuir* **2019**, 35 (30), 9831–9840. <https://doi.org/10.1021/acs.Langmuir.9b01449>. IF = 3.750
 6. Slouf, M.; Pilar, J.; Dybal, J.; **Šloufova, I.**; Michalkova, D.; Lukesova, M.; Zgadzai, O.; Blank, A.; Filippov, S. K. UV Degradation of Styrene-Butadiene Rubber versus High Density Poly(Ethylene) in Marine Conditions Studied by Infrared Spectroscopy, Micro Indentation, and Electron Spin Resonance Imaging. *Polym. Degrad. Stab.* **2018**, 156, 132–143. <https://doi.org/10.1016/j.polymdegradstab.2018.08.005>. IF = 3.780
 7. Sutrova, V.; **Šloufova, I.**; Mojzes, P.; Melnikova, Z.; Kalbac, M.; Vlckova, B. Excitation Wavelength Dependence of Combined Surface- and Graphene-Enhanced Raman Scattering Experienced by Free-Base Phthalocyanine Localized on Single-Layer Graphene-Covered Ag Nanoparticle Arrays. *J. Phys. Chem. C* **2018**, 122 (36), 20850–20860. <https://doi.org/10.1021/acs.jpcc.8b06218>. IF = 4.309
 8. **Šloufova, I.**; Vlckova, B.; Mojzes, P.; Matulkova, I.; Cisarova, I.; Prochazka, M.; Vohlidal, J. Probing the Formation, Structure, and Reactivity of Zn(II), Ag(I), and Fe(II) Complexes with 2,2':6',2''-Terpyridine on Ag Nanoparticles Surfaces by Time Evolution of SERS Spectra, Factor Analysis, and DFT Calculations. *J. Phys. Chem. C* **2018**, 122 (11), 6066–6077. <https://doi.org/10.1021/acs.jpcc.7b12157>. IF = 4.309
 9. Schwarzova-Peckova, K.; Vosahlova, J.; Barek, J.; **Šloufova, I.**; Pavlova, E.; Petrak, V.; Zavazalova, J. Influence of Boron Content on the Morphological, Spectral, and Electroanalytical Characteristics of Anodically Oxidized Boron-Doped Diamond Electrodes. *Electrochim. Acta* **2017**, 243, 170–182. <https://doi.org/10.1016/j.electacta.2017.05.006>. IF = 5.116
 10. Pilar, J.; Slouf, M.; Michalkova, D.; **Šloufova, I.**; Vackova, T.; Dybal, J. Pro-Oxidant Activity of Alpha-Tocopherol during Photooxidative Degradation of Polyolefins. ESRI and IR Microspectroscopy Studies. *Polym. Degrad. Stab.* **2017**, 138, 55–71. <https://doi.org/10.1016/j.polymdegradstab.2017.02.008>. IF = 3.193
 11. Uhlirova, T.; Mojzes, P.; Melnikova, Z.; Kalbac, M.; Sutrova, V.; **Šloufova, I.**; Vlckova, B. Raman Excitation Profiles of Hybrid Systems Constituted by Single-Layer Graphene and Free Base Phthalocyanine: Manifestations of Two Mechanisms of Graphene-Enhanced Raman Scattering. *J. Raman Spectrosc.* **2017**, 48 (10), 1270–1281. <https://doi.org/10.1002/jrs.5206>. IF = 2.876
 12. Stanek, T.; Dvorak, M.; Almonasy, N.; Nepras, M.; **Šloufova, I.**; Michl, M. Formation of Planarized Intramolecular Charge-Transfer State in Dichlorotriazinyl-Pyrene Fluorescent Probe: TD-DFT and Resonance Raman Study. *Dye. Pigment.* **2017**, 141, 121–127. <https://doi.org/10.1016/j.dyepig.2017.01.077>. IF = 3.767
 13. Sutrova, V.; **Šloufova, I.**; Melnikova, Z.; Kalbac, M.; Pavlova, E.; Vlckova, B. Effect of Ethanethiolate Spacer on Morphology and Optical Responses of Ag Nanoparticle Array-Single Layer Graphene Hybrid Systems. *Langmuir* **2017**, 33 (50), 14414–14424. <https://doi.org/10.1021/acs.Langmuir.7b03462>. IF = 3.789
 14. Pruskova, M.; Sutrova, V.; Slouf, M.; Vlckova, B.; Vohlidal, J.; **Šloufova, I.** Arrays of Ag and Au Nanoparticles with Terpyridine- and Thiophene-Based Ligands: Morphology and Optical Responses. *Langmuir* **2017**, 33 (17), 4146–4156. <https://doi.org/10.1021/acs.Langmuir.7b00126>. IF = 3.789
 15. Stenclova, P.; Sichova, K.; **Šloufova, I.**; Zednik, J.; Vohlidal, J.; Svoboda, J. Alcohol- and Water-Soluble Bis(Tpy)Quaterthiophenes with Phosphonium Groups: New Conjugated Units for Metallo-Supramolecular

- Polymers. *Dalt. Trans.* **2016**, 45 (3), 1208–1224. <https://doi.org/10.1039/c5dt04133c>. IF = 4.197
16. Faulkner, T.; Slany, L.; **Sloufova, I.**; Vohlidal, J.; Zednik, J. Pi-Conjugated Polyelectrolytes Derived from 2-Ethynylpyridine: The Effect of Quaternization Agent and Reaction Conditions on the Polymer Structure and SERS Characterization of Nanocomposites with Ag-Nanoparticles. *Macromol. Res.* **2016**, 24 (5), 441–449. <https://doi.org/10.1007/s13233-016-4062-0>. IF = 1.405
 17. Kokoskova, M.; Stepanek, M.; **Sloufova, I.**; Vlckova, B. Steady-State and Time-Resolved Luminescence of Ru(II) Polypyridine Attached to Ag Nanoparticles: Effect of Chemisorption in comparison with Electrostatic Bonding. *Spectrochim. Acta Part A-Molecular Biomol. Spectrosc.* **2015**, 150, 657–663. <https://doi.org/10.1016/j.saa.2015.05.088>. IF = 2.653
 18. **Sloufova, I.**; Prochazka, M.; Vlckova, B. Identification of Two Ag-2,2':6',2''-Terpyridine Surface Species on Ag Nanoparticle Surfaces by Excitation Wavelength Dependence of SERS Spectra and Factor Analysis: Evidence for Chemical Mechanism Contribution to SERS of Ag(0)-Tpy. *J. Raman Spectrosc.* **2015**, 46 (1), 39–46. <https://doi.org/10.1002/jrs.4585>. IF = 2.671
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 20. Stenclova-Blahova, P.; Svoboda, J.; **Sloufova, I.**; Vohlidal, J. Alcohol-Soluble Bis(Tpy)Thiophenes: New Building Units for Constitutional Dynamic Conjugated Polyelectrolytes. *Phys. Chem. Chem. Phys.* **2015**, 17 (20), 13743–13756. <https://doi.org/10.1039/c5cp01000d>. IF = 4.493
 21. **Sloufova, I.**; Vlckova, B.; Prochazka, M.; Svoboda, J.; Vohlidal, J. Comparison of SERRS and RRS Excitation Profiles of [Fe(Tpy)₂]²⁺ (Tpy = 2,2':6',2''-Terpyridine) Supported by DFT Calculations: Effect of the Electrostatic Bonding to Chloride-Modified Ag Nanoparticles on Its Vibrational and Electronic Structure. *J. Raman Spectrosc.* **2014**, 45 (5), 338–348. <https://doi.org/10.1002/jrs.4468>. IF = 2.671
 22. Blahova, P.; Zednik, J.; **Sloufova, I.**; Vohlidal, J.; Svoboda, J. Synthesis and Photophysical Properties of New Alpha, Omega-Bis(Tpy)Oligothiophenes and Their Metallo-Supramolecular Polymers With Zn²⁺ Ion Couplers. *SOFT Mater.* **2014**, 12 (2), 214–229. <https://doi.org/10.1080/1539445X.2013.858358>. IF = 1.244
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 28. **Srnova-Sloufova, I.**; Vlckova, B.; Bastl, Z.; Hasslett, T. L. Bimetallic (Ag)Au Nanoparticles Prepared by the Seed Growth Method: Two-Dimensional Assembling, Characterization by Energy Dispersive X-Ray Analysis, X-Ray Photoelectron Spectroscopy, and Surface Enhanced Raman Spectroscopy, and Proposed Mechanism of Grow. *Langmuir* **2004**, 20 (8), 3407–3415. <https://doi.org/10.1021/la0302605>. IF = 3.295
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32. Michl, M.; Vlckova, B.; **Sloufova, I.**; Mojzes, P. SERS and SERRS Spectra of Unperturbed Hydrophobic Molecular and Biomolecular Species Embedded in Sulphuric Acid - Modified Silver Nanoparticle Films. *Can. J. Anal. Sci. Spectrosc.* **2003**, 48 (1), 46–54. IF = 0.766
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45. **Srnova, I.**; Vlckova, B.; Baumruk, V. Enhanced Raman Spectra of 2,2'-Bipyridine Adsorbed on Aggregated Palladium Colloidal Particles. *J. Mol. Struct.* **1997**, 410, 201–203. [https://doi.org/10.1016/S0022-2860\(96\)09689-5](https://doi.org/10.1016/S0022-2860(96)09689-5). IF = 0.884
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2. práce v recenzovaných sbornících WOS

1. **Sloufova, I.**; Vlckova, B.; Gemperle, A.; Gemperlova, J.; Bastl, Z.; Lednický, F. Preparation and Characterization of Bimetallic (Ag)Au Colloids. In *Proceedings of the 5th Multinational Congress on Electron Microscopy*; Dini, L and Catalano, M, Ed.; 2001; pp 443–444.
2. **Srnova, I.**; Vlckova, B.; Baumruk, V.; Lednický, F. Enhanced Raman Spectra of Porphyrins and N-Bases Adsorbed on Pd and bimetallic (Ag)Pd Colloidal Particles. In *Spectroscopy of Biological Molecules: Modern Trends*; Carmona, P., Navarro, R., Hernanz, A., Eds.; 1997; pp 93–94.

3. učebnice a učební texty

- učební text pro kurz Cvičení z obecné chemie pro biologické obory – „Návody k výpočtům v obecné chemii (pro biologické obory a KATA)“ (dostupné on-line <http://web.natur.cuni.cz/~sloufovi/navody-och-2020.pdf>)

4. zvaná přednáška

- invited speaker - 16th Czech – Slovak Spectroscopic Conference. Luhačovice, Czech Republic, 27-31.5. - Terpyridine-based ligands and their metal complexes: raman and surface-enhanced raman study - **Ivana Šloufová**, Blanka Vlčková, Jiří Vohlídal, Peter Mojzeš, Marek Procházka, Irena Matulková, Markéta Prusková, Veronika Sutrová, Miroslav Šlouf, Jan Svoboda

5. kvalifikační práce

- disertační práce - "Assemblies of Mono- and Bimetallic Nanoparticles with N-base Molecules as Adsorbates: Preparation and Elucidation of Their Nanoscale and Molecular-Scale Structure", 2000, školitel – prof. RNDr. B. Vlčková, CSc., Univerzita Karlova, Přírodovědecká fakulta, Katedra fyzikální a makromolekulární chemie

6. řešení grantů

- GACR 17-05007S Standardní projekt GAČR, panel P208, Vzájemné ovlivnění chemických a plasmonem indukovaných procesů v hybridních systémech plasmonických nanočástic a molekul, 2017-2019, hodnocení: splněno - řešitel
- GACR 203/02/P028 Postdoktorský grant GAČR 203/02/P028 - Nové typy nanostruktur založených na monometalických a bimetalických koloidech vhodných pro aplikace v SERS spektroskopii. Garant projektu: Doc. RNDr. F. Lednický, CSc. Grant ukončen předčasně 1.8.2002 z důvodu nástupu na mateřskou dovolenou – řešitel
- GAUK 2020- 1100120 vedoucí studentského projektu, GAUK Monitorování reakcí na površích plasmonických nanočástic metodou spektroskopie povrchem zesíleného Ramanova rozptylu, řešitelé Bc. Jan Kožíšek a Mgr. Jana Hrnčířová, 2020-2021 - garant
- 4 granty udělené Ministerstvem školství (Fond rozvoje vysokých škol FRVŠ): Studentské projekty garant - Prof. RNDr. B. Vlčková, CSc.): FRVŠ G4-1830/2000, FRVŠ G4 -1713/1999, FRVŠ G -1362/1998, FRVŠ 1214/97 - řešitel

7. abstrakta z mezinárodních konferencí

- více než 80 konferenčních příspěvků