

Dr. Alina SOROCEANU

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Brainmap codes: U-1700-036D-9420

Specialist in synthesis and characterization of metal–salen Schiff base complexes with long, high flexible and hydrophobic siloxane type, coordination polymers and supramolecular structures, medicine, biology, crystallization technique, etc. I have experience in materials characterization using methods such as: infrared spectroscopy, proton and carbon nuclear magnetic resonance, single crystal X-ray diffraction, thermogravimetric measurements, X-ray fluorescence, dynamic vapour sorption and surface tension measurements, scanning electron microscopy, atomic force microscopy, differential scanning calorimetry etc.

Scientific contributions: 12 scientific referred articles published in ISI journals **from which 6 in yellow/red zone (3/3)** with a **Cumulative IF=19.371** (*Web of Science Core Collection*) (main author for 6 of them); 6 oral communications (main author for 3 of them) and 24 posters at National and International Conferences (main author for 13 of them). Member in 3 **projects:** "Synthesis and study of the polymeric metallosiloxanes – new materials for catalysis and nanosciences", Project POS CCE: ID 570, Cod SMIS-CSNR:12473; "New coordination networks containing polyfunctional flexible bridges"-PN-II-ID-PCE-2012-4 ; Bilateral cooperation-The program of bilateral cooperation Romania-Austria, "Coordination compounds of 3d metals with Schiff base ligands having siloxane or silane units" PN-II-CT-RO-AT-2013-1.

Scientific visibility: H-index: 4 (according to ISI Web of Science) and 5 (according to Google Scholar and Scopus); **Sum of the times cited: 85** (75 without self-citations) (according to ISI Web of Science, September 2019)

SELECTED SCIENTIFIC ARTICLES

- *Copper(II) Complexes with Schiff Bases Containing a Disiloxane Unit: Synthesis, Structure, Bonding Features and Catalytic Activity for Aerobic Oxidation of Benzyl Alcohol*, Soroceanu, A.; Cazacu, M.; Shova, S.; Turta, C. ; Kozisek, J.; Gall, M.; Breza, M.; Rapta, P.; MacLeod, T. C. O.; Pombeiro, A. J. L.; Telser, J.; Dobrov, A. A. ; Arion, V. B. *Eur. J. Inorg. Chem.* **2013**, 1458–1474. (FI = 2.507; AIS =1.421) (38 citations)
- *Assessment of some application potentials for copper complexes of the ligands containing siloxane moiety: Antimicrobial, antifungal, antioxidant and redox activity*, Soroceanu, A., Vacareanu, L., Vornicu, N., Cazacu, M., Rudic, V., Croitori, T. **2016**, *Inorganica Chimica Acta*, 442, 119-123. (FI = 2.264; AIS =0,802) (4 citations)
- *Charge and Spin States in Schiff Base Metal Complexes with a Disiloxane Unit Exhibiting a Strong Noninnocent Ligand Character: Synthesis, Structure, Spectroelectrochemistry, and Theoretical Calculations*, Cazacu, M., Shova, S., Soroceanu, A., Machata, P., Bucinsky, L., Breza, M., Rapta, P., Telser, J., Krzystek, J., Arion, V.B. **2015**, *Inorganic Chemistry*, 54 (12), 5691-5706. (FI = 4.7; AIS =2.673) (10 citations)
- *A supramolecular structure based on copper complex of 2,3-pyridinedicarboxylic acid and 1,3-bis(3-aminopropyl)tetramethyldisiloxane chlorohydrate*, Soroceanu, A.; Bargan, A.; Shova, S.; Avadanei, M., Cazacu, M. *J. Molec. Struct.* **2015**, 1083, 88-94. (FI = 1,693; AIS =0,642) (1 citare)
- *Dielectric elastomers based on silicones filled with transitional metal complexes*, Ştiubianu, G., Soroceanu, A., Varganici, C.-D., Tugui, C., Cazacu, M. **2016**, *Composites Part B: Engineering*, 93, 236-243. (FI = 4.92; AIS =3.227) (9 citations)