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Synthesis of metallocarboranes-based delocalized lipophilic cations for diagnostics and Cancer treatment

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Metallocarboranes represent the wide class of polyhedral boron compounds with low toxicity, high boron content and catabolic stability. Applied in boron neutron capture therapy metallocarboranes derivatives are of interest. All of that sets apart metallocarboranes in the separate broad group of perspective pharmacophores. Carboranes containing the Delocalized Lipophilic Cations (DLCs) arouse big interest. DLCs are perspective compounds for diagnostics and cancer treatment. Eight compounds based on fluorescent dyes Rodamine 6G, B,

were synthesized and characterized in our laboratory. Developing this direction, the optimal methods of bis (dicarbollide) cobalt-based DLCs syntheses were invented.

Speaker Biography

Dugin Sergey has completed his PhD at the age of 25 years from RSC GNIICHTEOS, Russian Federation. He is the leading scientist in GNIICHTEOS. He has over 200 publications that have been cited over 200 times, and his publication H-index is 20 and has been serving as an editorial board member of reputed Journals.

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