

ОБЩ СПИСЪК С ПУБЛИКАЦИИ

на

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Публикувани научни трудове

- [1] M. Georgiev. Exact classical approach to the electron's self-energy and anomalous g -factor. *Europhys. Lett.*, 147:20001, 2024. ISSN 0295-5075, 1286-4854. doi: 10.1209/0295-5075/ad5469. URL <https://iopscience.iop.org/article/10.1209/0295-5075/ad5469>.
- [2] M. Georgiev and H. Chamati. Magnetic Behavior of Trigonal (Bi-)pyramidal $3d^8$ Mononuclear Nanomagnets: The Case of $[\text{Ni}(\text{MDABCO})_2\text{Cl}_3]\text{ClO}_4$. *ACS Omega*, 8:28640–28650, 2023. ISSN 2470-1343, 2470-1343. doi: 10.1021/acsomega.3c03208. URL <https://pubs.acs.org/doi/10.1021/acsomega.3c03208>.
- [3] M. Georgiev, T. Baronian, and H. Chamati. A Self-Consistent Exact Diagonalization Approach to the Ground State Magnetic Properties of the Meridional $[\text{V}(\text{ddpd})_2]^{3+}$ Complex. *Inorganics*, 11: 268, 2023. ISSN 2304-6740. doi: 10.3390/inorganics11070268. URL <https://www.mdpi.com/2304-6740/11/7/268>.
- [4] M. Georgiev and H. Chamati. Fine Structure and the Huge Zero-Field Splitting in Ni^{2+} Complexes. *Molecules*, 27:8887, 2022. ISSN 1420-3049. doi: 10.3390/molecules27248887. URL <https://www.mdpi.com/1420-3049/27/24/8887>.
- [5] M. Georgiev and H. Chamati. Single-Ion Magnets with Giant Magnetic Anisotropy and Zero-Field Splitting. *ACS Omega*, 7:42664–42673, 2022. ISSN 2470-1343, 2470-1343. doi: 10.1021/acsomega.2c06119. URL <https://pubs.acs.org/doi/10.1021/acsomega.2c06119>.
- [6] M. Georgiev and H. Chamati. Magnetostructural Dependencies in $3d^2$ Systems: The Trigonal Bipyramidal V^{3+} Complex. *Phys. Status Solidi B*, 259:2100645, 2022. ISSN 0370-1972, 1521-3951. doi: 10.1002/pssb.202100645. URL <https://onlinelibrary.wiley.com/doi/10.1002/pssb.202100645>.
- [7] M. Georgiev and H. Chamati. An Exchange Mechanism for the Magnetic Behavior of Er^{3+} Complexes. *Molecules*, 26:4922, 2021. ISSN 1420-3049. doi: 10.3390/molecules26164922. URL <https://www.mdpi.com/1420-3049/26/16/4922>.
- [8] M Georgiev. Discrete dynamics of energy and momentum transfer. *J. Phys.: Conf. Ser.*, 1762: 012021, 2021. ISSN 1742-6588, 1742-6596. doi: 10.1088/1742-6596/1762/1/012021. URL <https://iopscience.iop.org/article/10.1088/1742-6596/1762/1/012021>.
- [9] M. Georgiev and H. Chamati. Origin of the magnetic exchange in insulators: Localized vs. delocalized electrons. *J. Phys.: Conf. Ser.*, 1762:012019, 2021. ISSN 1742-6588, 1742-6596. doi: 10.1088/1742-6596/1762/1/012019. URL <https://iopscience.iop.org/article/10.1088/1742-6596/1762/1/012019>.
- [10] M. Georgiev and H. Chamati. Molecular magnetism in the multi-configurational self-consistent field method. *J. Phys.: Condens. Matter*, 33:075803, 2021. ISSN 0953-8984. doi: 10.1088/1361-648X/abc802. URL <https://doi.org/10.1088%2F1361-648x%2Fabc802>.

- [11] M. Georgiev and H. Chamati. Magnetization steps in the molecular magnet $\text{Ni}_4\text{Mo}_{12}$ revealed by complex exchange bridges. *Phys. Rev. B*, 101:094427, 2020. ISSN 2469-9950, 2469-9969. doi: 10.1103/PhysRevB.101.094427. URL <https://link.aps.org/doi/10.1103/PhysRevB.101.094427>.
- [12] M. Georgiev and H. Chamati. Magnetic excitations in molecular magnets with complex bridges: the tetrahedral molecule $\text{Ni}_4\text{Mo}_{12}$. *Eur. Phys. J. B*, 92:93, 2019. ISSN 1434-6028, 1434-6036. doi: 10.1140/epjb/e2019-100115-1. URL <http://link.springer.com/10.1140/epjb/e2019-100115-1>.
- [13] M. Georgiev and H. Chamati. Magnetic Excitations in the trimeric compounds $\text{A}_3\text{Cu}_3(\text{PO}_4)_4$ ($\text{A} = \text{Ca}, \text{Sr}, \text{Pb}$). *C.R. Acad. Bulg. Sci.*, 72:29–37, 2019. ISSN 1310-1331, 2367-5535. doi: 10.7546/CRABS.2019.01.04.
- [14] Magnetic exchange in spin clusters. 2075. ISSN 1551-7616, 0094-243X. URL <http://aip.scitation.org/doi/abs/10.1063/1.5091121>.
- [15] M. Georgiev and H. Chamati. Spin multipole moments as collective quantum phenomena. *J. Phys. Conf. Ser.*, 794:012026, 2017. ISSN 1742-6596. doi: 10.1088/1742-6596/794/1/012026.

Научни трудове обявени преди подаване

- [1] M. Georgiev, The Muon g-2 in a Regularized Electrodynamics, [Preprints, 2024070161, \(2024\)](#)
 url: <https://doi.org/10.20944/preprints202407.0161.v1>
 doi: 10.20944/preprints202407.0161.v1
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