

2021

- Tina Arh, Biprojit Sana, Matej Pregelj, Panchanana Khuntia, Zvonko Jagličić, Manh Duc Le, Pabitra Kumar Biswas, Pascal Manuel, Lucile Mangin-Thro, Andrew Ozarowski, Andrej Zorko, "The ising triangular-lattice antiferromagnet neodymium heptatantalate as a quantum spin liquid candidate", *Nature Materials*, (2021); doi: [10.1038/s41563-021-01169-y](https://doi.org/10.1038/s41563-021-01169-y)
- David Antolinc, Katarina Černe, Zvonko Jagličić, "Risk of using capillary active interior insulation in a cold climate", *Energies*, **14**(21) (2021); doi: [10.3390/en14216890](https://doi.org/10.3390/en14216890)
- Pascal Boulet, Marie-Cécile de Weerd, Mitja Krnel, Stanislav Vrtnik, Zvonko Jagličić, Janez Dolinšek, "Structural model and spin-glass magnetism of the Ce₃ Au₁₃ Ge₄ quasicrystalline approximant", *Inorganic Chemistry*, **60**(4): 2526-2532, (2021); doi: [10.1021/acs.inorgchem.0c03430](https://doi.org/10.1021/acs.inorgchem.0c03430)
- Tomislav Balić, Zvonko Jagličić, Elaheh Sadrollah, Fred Jochen Litterst, Marta Počkaj, Dirk Baabe, Elvira Kovač-Andrić, Jelena Bijelić, Dajana Gašo-Sokač, Igor Djerdj, "Single crystal growth, structural characterization and magnetic properties study of an antiferromagnetic trinuclear iron(III) acetate complex with uncoordinated hexamine", *Inorganica Chimica Acta*, **520**: 1-9, (2021); doi: [10.1016/j.ica.2021.120292](https://doi.org/10.1016/j.ica.2021.120292)
- Mara Perović, Marko Bošković, Vladan Kusigerski, Zvonko Jagličić, Jovan Blanuša, Vojislav Spasojević, Naděžda Pizúrová, Oldřich Schneeweiss, "Search for high temperature memory effects in magnetic nanoparticles", *Journal of Alloys and Compounds*, **855**(2), 157523, (2021); doi: [10.1016/j.jallcom.2020.157523](https://doi.org/10.1016/j.jallcom.2020.157523)
- Andreja Jelen, Primož Koželj, Darja Gačnik, Stanislav Vrtnik, Mitja Krnel, Goran Dražić, Magdalena Wencka, Zvonko Jagličić, Michael Feuerbacher, Janez Dolinšek, "Collective magnetism of a single-crystalline nanocomposite FeCoCrMnAl high-entropy alloy", *Journal of Alloys and Compounds*, **864**, 158115, (2021); doi: [10.1016/j.jallcom.2020.158115](https://doi.org/10.1016/j.jallcom.2020.158115)
- Primož Koželj, Stanislav Vrtnik, Mitja Krnel, Andreja Jelen, Darja Gačnik, Magdalena Wencka, Zvonko Jagličić, Anton Meden, Goran Dražić, Frédéric Danoix, Julian Ledieu, Michael Feuerbacher, Janez Dolinšek, "Spin-glass magnetism of the non-equiatomic CoCrFeMnNi high-entropy alloy", *Journal of Magnetism and Magnetic Materials*, **523**, 167579, (2021); doi: [10.1016/j.jmmm.2020.167579](https://doi.org/10.1016/j.jmmm.2020.167579)
- Tamara Đorđević, Ljiljana Karanović, Marko Jagodič, Zvonko Jagličić, "Water in the alluaudite type-compounds: synthesis, crystal structure and magnetic properties of Co₃(AsO₄)_{0.5+3x}(HAsO₄)_{2-x}(H₂AsO₄)_{0.5+x}[(H, □)_{0.5}(H₂O, H₃O)_{0.5}]^{2x+}", *Minerals*, **11**(12), 1372, (2021); doi: [10.3390/min11121372](https://doi.org/10.3390/min11121372)
- Kai Sheng, Ran Wang, Xinde Tang, Marko Jagodič, Zvonko Jagličić, Laixue Pang, Jian-Min Dou, Zhi-Yong Gao, Hua-Yu Feng, Chen-Ho Tung, Di Sun, "A carbonate-templated decanuclear Mn nanocage with two different silsesquioxane ligands", *Inorganic Chemistry*, **60**(19): 14866-14871, (2021); doi: [10.1021/acs.inorgchem.1c02190](https://doi.org/10.1021/acs.inorgchem.1c02190)
- Narayan Ch. Jana, Zvonko Jagličić, Paula Brandão, Sarmistha Adak, Amrita Saha, Anangamohan Panja, "A novel triple aqua-, phenoxo- and carboxylatobridged dinickel(II) complex, its magnetic properties, and comparative biomimetic catalytic studies with analogous dinickel(II) complexes", *New Journal of Chemistry*, **45**(17): 7602-7613, (2021); doi: [10.1039/d1nj00708d](https://doi.org/10.1039/d1nj00708d)
- Jelena Bijelić, Dalibor Tatar, Manisha Sahu, Zvonko Jagličić, Igor Djerdj, "Size reduction-induced properties modifications of antiferromagnetic dielectric nanocrystalline Ba₂NiMO₆ (M = W, Te) double perovskites", *Oxford Open Materials Science*, **1**(1), itaa003, (2021); doi: [10.1093/oxfmat/itaa003](https://doi.org/10.1093/oxfmat/itaa003)

2020

- Kai Sheng, Xuefei Tian, Marko Jagodič, Zvonko Jagličić, Na Zhang, Qing-Yun Liu, Chen-Ho Tung, Di Sun, "Synthesis, structure and magnetism of a novel Cu₄Ti₅ heterometallic cluste", *Chinese Chemical Letters*, **31**(3): 809-812, (2020); doi: [10.1016/j.ccl.2019.05.050](https://doi.org/10.1016/j.ccl.2019.05.050)
- Jože Luzar, Andreja Padovnik, Petra Štukovnik, Marjan Marinšek, Zvonko Jagličić, Violeta Bokan-Bosiljkov, Janez Dolinšek, "NMR spectroscopy-supported design and properties of air lime-white cement injection grouts for strengthening of historical masonry buildings", *Construction & Building Materials*, **250**: 1-11, (2020); doi: [10.1016/j.conbuildmat.2020.118937](https://doi.org/10.1016/j.conbuildmat.2020.118937)
- Natalija Pantalon Juraj, Senada Muratović, Berislav Perić, Nataša Šijaković Vujičić, Robert Vianello, Dijana Žilić, Zvonko Jagličić, Srećko I. Kirin, "Structural variety of isopropyl-bis(2-picolyl)amine complexes with zinc(II) and copper(II)", *Crystal Growth & Design*, **20**(4): 2440-2453, (2020); doi: [10.1021/acs.cgd.9b01625](https://doi.org/10.1021/acs.cgd.9b01625)
- Zhi Wang, Lu-Ming Zheng, Marko Jagodič, Zvonko Jagličić, Hai-Feng Su, Jian-Xing Zhuang, Xing-Po Wang, Chen-Ho Tung, Di Sun, "A polyoxochromate templated 56-nuclei silver nanocluster", *Inorganic Chemistry*, **59**(5): 3004-3011, (2020); doi: [10.1021/acs.inorgchem.9b03365](https://doi.org/10.1021/acs.inorgchem.9b03365)
- Ya-Nan Liu, Jin-Le Hou, Zhi Wang, Rakesh Kumar Gupta, Zvonko Jagličić, Marko Jagodič, Wen-Guang Wang, Chen-Ho Tung, Di Sun, "An octanuclear cobalt cluster protected by macrocyclic ligand: in situ ligand-transformation-assisted assembly and single-molecule magnet behavior", *Inorganic Chemistry*, **59**(8): 5683-5693, (2020); doi: [10.1021/acs.inorgchem.0c00449](https://doi.org/10.1021/acs.inorgchem.0c00449)
- Sanja Burazer, Jasminka Popović, Zvonko Jagličić, Marko Jagodič, Ana Šantić, Angela Altomare, Corrado Cuocci, Nicola Corriero, Martina Vrankić, "Magnetoelectric coupling springing up in molecular ferroelectric: [N(C₂H₅)₃CH₃][FeCl₄]", *Inorganic Chemistry*, **59**(10): 6876-6883, (2020); doi: [10.1021/acs.inorgchem.0c00288](https://doi.org/10.1021/acs.inorgchem.0c00288)
- Fei Yu, Bao-Qian Ji, Marko Jagodič, Yan-Min Su, Shan-Shan Zhang, Lei Feng, Mohamedally Kurmoo, Zvonko Jagličić, Di Sun, "Copper(II)-assisted ligand fragmentation leading to three families of metallamacrocyclic", *Inorganic Chemistry*, **59**(18): 13524-13532, (2020); doi: [10.1021/acs.inorgchem.0c01915](https://doi.org/10.1021/acs.inorgchem.0c01915)
- Mitja Krnel, Stanislav Vrtnik, Andreja Jelen, Primož Koželj, Zvonko Jagličić, Anton Meden, Michael Feuerbacher, Janez Dolinšek, "Speromagnetism and asperomagnetism as the ground states of the Tb-Dy-Ho-Er-Tm "ideal" high-entropy alloy", *Intermetallics*, **117**: 106680-1-106680-13, (2020); doi: [10.1016/j.intermet.2019.106680](https://doi.org/10.1016/j.intermet.2019.106680)
- Andrii Vakulka, Evgeny A. Goreshnik, Marko Jagodič, Zvonko Jagličić, Zvonko Trontelj, "Tetrahydrated bis(ethylenediamine)copper(II) sulfate: Crystal structure, Raman spectrum and magnetic susceptibility", *Journal of Molecular Structure*, **1210**, 128002, (2020); doi: [10.1016/j.molstruc.2020.128002](https://doi.org/10.1016/j.molstruc.2020.128002)

- Jelena Bijelić, Anamarija Stanković, Martina Medvidović-Kosanović, Berislav Marković, Pascal Cop, Yu Sun, Sugato Hajra, Manisha Sahu, Jelena Vukmirović, Dean Marković, Ákos Kukovecz, Zvonko Jagličić, Bernd M. Smarsly, Igor Djerdj, "Rational sol-gel-based synthesis design and magnetic, dielectric, and optical properties study of nanocrystalline $\text{Sr}_3\text{Co}_2\text{WO}_9$ triple perovskite", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **124**(23):12794-12807, (2020); doi: [10.1021/acs.jpcc.0c02973](https://doi.org/10.1021/acs.jpcc.0c02973)
- Jelena Aleksić, Tanja Barudžija, Dragana Jugović, Miodrag Mitrić, Marko Bošković, Zvonko Jagličić, Darja Lisjak, Ljiljana Kostić, "Investigation of structural, microstructural and magnetic properties of $\text{Yb}_x\text{Y}_{1-x}\text{F}_3$ solid solutions", *The Journal of Physics and Chemistry of Solids*, **142**, 109449, (2020); doi: [10.1016/j.jpcs.2020.109449](https://doi.org/10.1016/j.jpcs.2020.109449)
- Stanislav Vrtnik, Mitja Krnel, Primož Koželj, Zvonko Jagličić, Luka Kelhar, Anton Meden, Marie-Cécile de Weerd, Pascal Boulet, Julian Ledieu, Vincent Fournée, Jean-Marie Dubois, Janez Dolinšek, "Anisotropic quantum critical point in the Ce_3 Al system with a large magnetic anisotropy", *Journal of Physics Communications*, **4**(10), 105016, (2020); doi: [10.1088/2399-6528/abc730](https://doi.org/10.1088/2399-6528/abc730)
- Jelena Bijelić, Dalibor Tatar, Sugato Hajra, Manisha Sahu, Sang Jae Kim, Zvonko Jagličić, Igor Djerdj, "Nanocrystalline antiferromagnetic high- κ dielectric Sr_2NiMO_6 ($M = \text{Te}, \text{W}$) with double perovskite structure type", *Molecules*, **25**(17), 3996, (2020); doi: [10.3390/molecules25173996](https://doi.org/10.3390/molecules25173996)
- Kai Sheng, Bao-Qian Ji, Lei Feng, Yan-Min Su, Marko Jagodič, Zvonko Jagličić, Di Sun, "A rod-like hexanuclear nickel cluster based on a bi(pyrazole-alcohol) ligand: structure, electrospray ionization mass spectrometry, magnetism and photocurrent response", *New Journal of Chemistry*, **44**(17): 7152-7157, (2020); doi: [10.1039/d0nj00959h](https://doi.org/10.1039/d0nj00959h)
- Izidor Benedičič, Nejc Janša, Marion Van Midden, Peter Jeglič, Martin Klanjšek, Erik Zupanič, Zvonko Jagličić, Petra Šutar, Peter Prelovšek, Dragan Mihailović, Denis Arčon, "Superconductivity emerging upon Se doping of the quantum spin liquid $1\text{T} - \text{TaS}_2$ ", *Physical Review B*, **102**(5), 054401, (2020); doi: [10.1103/PhysRevB.102.054401](https://doi.org/10.1103/PhysRevB.102.054401)
- Yalda Sheybani Pour, Elham Safaei, Andrzej Wojtczak, Zvonko Jagličić, "Valence tautomerism in catecholato cobalt Bis(phenolate) diamine complexes as models for Enzyme-substrate adducts of catechol dioxygenases", *Polyhedron*, **187**, 114620, (2020); doi: [10.1016/j.poly.2020.114620](https://doi.org/10.1016/j.poly.2020.114620)
- Tanja Keškić, Zvonko Jagličić, Andrej Pevec, Božidar R. Čobeljić, Dušanka Radanović, Maja Gruden-Pavlović, Iztok Turel, Katarina Anđelković, Ilija Brčeski, Matija Zlatar, "Synthesis, X-ray structures and magnetic properties of Ni(II) complexes of heteroaromatic hydrazone", *Polyhedron*, **191**, 114802, (2020); doi: [10.1016/j.poly.2020.114802](https://doi.org/10.1016/j.poly.2020.114802)
- Mina Nasibipour, Elham Safaei, Andrzej Wojtczak, Zvonko Jagličić, Agustín Galindo, Marzieh Sadat Masoumpour, "A biradical oxo-molybdenum complex containing semiquinone and o-aminophenol benzoxazole-based ligands", *RSC Advances*, **10**(67): 40853-40866, (2020); doi: [10.1039/d0ra06351g](https://doi.org/10.1039/d0ra06351g)

2019

- Jelena Bijelić, Anamarija Stanković, Brunislav Matasović, Berislav Marković, Mirjana Bijelić, Željko Skoko, Jasminka Popović, Goran Štefanić, Zvonko Jagličić, Sabrina Zellmer, Tobias Preller, Georg Garnweitner, Tamara Đorđević, Pascal Cop, Bernd Smarsly, Igor Djerdj, "Structural characterization and magnetic property determination of nanocrystalline $\text{Ba}_3\text{Fe}_2\text{WO}_9$ and $\text{Sr}_3\text{Fe}_2\text{WO}_9$ perovskites prepared by a modified aqueous sol-gel route", *CrystEngComm*, **21**(2): 218-227, (2019); doi: [10.1039/c8ce01483c](https://doi.org/10.1039/c8ce01483c)
- Hadi Feizi, Robabeh Bagheri, Zvonko Jagličić, Jitendra Pal Singh, Keun Hwa Chae, Zhenlun Song, Mohammad Mahdi Najafpour, "A nickel(II) complex under water-oxidation reaction: what is the true catalyst?", *Dalton Transactions*, **48**(2) (2019); doi: [10.1039/c8dt03990a](https://doi.org/10.1039/c8dt03990a)
- Younes Mousazade, Mohammad Mahdi Najafpour, Robabeh Bagheri, Zvonko Jagličić, Jitendra Pal Singh, Keun Hwa Chae, Zhenlun Song, Margarita V. Rodionova, Roman A. Voloshin, Jian-Ren Shen, Seeram Ramakrishna, Suleyman I. Allakhverdiev, "A manganese(II) phthalocyanine under water-oxidation reaction: new findings", *Dalton Transactions*, **48**(32) (2019); doi: [10.1039/c9dt01790a](https://doi.org/10.1039/c9dt01790a)
- Said Ben Moumen, Yaovi Gagou, Saad Belkhadir, Daoud Mezzane, M'barek Amjoud, Lahoucine Hajji, Brigita Rožič, Zdravko Kutnjak, Zvonko Jagličić, Marko Jagodič, Mimoun El Marssi, Yakov Kopelevich, Igor A. Luk'yanchuk, "Structural, dielectric and magnetic properties of multiferroic $(1-x)\text{La}_{0.5}\text{Ca}_{0.5}\text{MnO}_3 - (x)\text{BaTi}_{0.8}\text{Sn}_{0.2}\text{O}_3$ laminated composites", *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **66**(12): 1935-1941, (2019); doi: [10.1109/TUFFC.2019.2935459](https://doi.org/10.1109/TUFFC.2019.2935459)
- Bao-Qian Ji, Hai-Feng Su, Marko Jagodič, Zvonko Jagličić, Mohamedally Kurmoo, Xing-Po Wang, Chen-Ho Tung, Zao-Zhen Cao, Di Sun, "Self-Organization into Preferred Sites by Mg^{II} , Mn^{II} , and Mn^{III} in Brucite-Structured M^{II} Cluster", *Inorganic Chemistry*, **58**(6): 3800-3806, (2019); doi: [10.1021/acs.inorgchem.8b03406](https://doi.org/10.1021/acs.inorgchem.8b03406)
- Ya-Nan Liu, Hai-Feng Su, Yun-Wu Li, Qing-Yun Liu, Zvonko Jagličić, Wen-Guang Wang, Chen-Ho Tung, Di Sun, "Space craft-like octanuclear Co(II)-silsesquioxane nanocages: Synthesis, structure, magnetic properties, solution behavior, and catalytic activity for hydroboration of ketones", *Inorganic Chemistry*, **58**(7): 4574-4582, (2019); doi: [10.1021/acs.inorgchem.9b00137](https://doi.org/10.1021/acs.inorgchem.9b00137)
- Muhammad Riaz, Rakesh Kumar Gupta, Hai-Feng Su, Zvonko Jagličić, Mohamedally Kurmoo, Chen-Ho Tung, Di Sun, Lan-Sun Zheng, "Hexadecanuclear $\text{Mn}_2^{\text{II}}\text{Mn}_{14}^{\text{III}}$ Molecular Torus Built from in Situ Tandem Ligand Transformations", *Inorganic Chemistry*, **58**(21): 14331-14337, (2019); doi: [10.1021/acs.inorgchem.9b01549](https://doi.org/10.1021/acs.inorgchem.9b01549)
- Stanislav Vrtnik, Janez Lužnik, Primož Koželj, Andreja Jelen, Jože Luzar, Mitja Krnel, Zvonko Jagličić, Anton Meden, Michael Feuerbacher, Janez Dolinšek, "Magnetic phase diagram and magnetoresistance of Gd-Tb-Dy-Ho-Lu hexagonal high-entropy alloy", *Intermetallics*, **105**: 163-172, (2019); doi: [10.1016/j.intermet.2018.10.014](https://doi.org/10.1016/j.intermet.2018.10.014)
- Brina Dojer, Andrej Pevec, Katja Breznik, Zvonko Jagličić, Sašo Gyergyek, Matjaž Kristl, "Structural and thermal properties of new copper and nickel single-source precursors", *Journal of Molecular Structure*, **1194**: 171-177, (2019); doi: [10.1016/j.molstruc.2019.05.047](https://doi.org/10.1016/j.molstruc.2019.05.047)
- Gregor Mali, Matjaž Mazaj, Iztok Arčon, Darko Hanžel, Denis Arčon, Zvonko Jagličić, "Unraveling the arrangement of Al and Fe within the framework explains the magnetism of mixed-metal MIL-100(Al,Fe)", *The Journal of Physical Chemistry Letters*, **10**(7): 1464-1470, (2019); doi: [10.1021/acs.jpclett.9b00341](https://doi.org/10.1021/acs.jpclett.9b00341)
- Liudmila N. Alyabyeva, Victor I. Torgashev, Elena S. Zhukova, Denis A. Vinnik, Anatoliy S. Prokhorov, Svetlana A. Gudkova, David Rivas Góngora, Tomislav Ivek, Silvija Tomić, Nikolina Novosel, Damir Starešinić, Damir Dominko, Zvonko Jagličić, Martin Dressel, Dmitry A. Zherebtsov, Boris Gorshunov, "Influence of chemical substitution on broadband dielectric response of barium-lead M-type hexaferrite", *New Journal of Physics*, **21**(6), 063016, (2019); doi: [10.1088/1367-2630/ab2476](https://doi.org/10.1088/1367-2630/ab2476)
- Andrej Zorko, Matej Pregelj, Martin Klanjšek, Matjaž Gomilšek, Zvonko Jagličić, James S. Lord, Joel A. T. Verezhak, Tian Shang, Wei Sun, Jin-Xiao Mi, "Coexistence of magnetic order and persistent spin dynamics in a quantum kagome antiferromagnet with no intersite mixing", *Physical*

● Milica Milenković, Argyro T. Papastavrou, Dušanka Radanović, Andrej Pevec, Zvonko Jagličić, Matija Zlatac, Maja Gruden-Pavlović, Georgios C. Vougioukalakis, Iztok Turel, Katarina Anđelković, Božidar R. Čobeljić, "Highly-efficient N-arylation of imidazole catalyzed by Cu(II) complexes with quaternary ammonium-functionalized 2-acetylpyridine acylhydrazone", *Polyhedron*, **165**: 22-30, (2019); doi: [10.1016/j.poly.2019.03.001](https://doi.org/10.1016/j.poly.2019.03.001)

2018

● Lidija Radovanović, Jelena Rogan, Dejan Poleti, Marko V. Rodić, Zvonko Jagličić, "Diaquabis(2,2'-dipyridylamine)M(II) terephthalate dihydrates, M(II) = Ni, Co: synthesis, crystal structures, thermal and magnetic properties", *Acta Chimica Slovenica*, **65**(1): 191-198, (2018); doi: [10.17344/acsi.2017.3813](https://doi.org/10.17344/acsi.2017.3813)

● Branka Babić-Stojić, Vukoman Jokanović, Dušan Milivojević, Miroslav Požek, Zvonko Jagličić, Darko Makovec, Nataša Jović Orsini, Mirjana Marković, Katarina Arsić, Verica Paunović, "Ultrasmall iron oxide nanoparticles: Magnetic and NMR relaxometric properties", *Current Applied Physics*, **18**(2): 141-149, (2018); doi: [10.1016/j.cap.2017.11.017](https://doi.org/10.1016/j.cap.2017.11.017)

● Luka Pajek, Roman Kunič, Zvonko Jagličić, "Fazno spremenljive snovi (PCM) in njihova uporaba v stavbah = Phase change materials (PCM) and their application in buildings", *Gradbeni Vestnik: Glasilo Zveze Društev Gradbenih Inženirjev in Tehnikov Slovenije*, **67**: 51-62, (2018); [COBISS ID [8369249](https://www.cobiss.net/cobiss/slo/document/8369249)]

● Sara Koohzad, Hamid Golchoubian, Zvonko Jagličić, "Structural, solvatochromism and magnetic properties of two halogen bridged dinuclear copper (II) complexes: A density functional study", *Inorganica Chimica Acta*, **473**: 60-69, (2018); doi: [10.1016/j.ica.2017.12.026](https://doi.org/10.1016/j.ica.2017.12.026)

● Stanislav Vrtnik, Sheng Guo, Saad Sheikh, Andreja Jelen, Primož Koželj, Jože Luzar, Andraž Kocjan, Zvonko Jagličić, Anton Meden, Hwanuk Guim, Hee-Joung Kim, Janez Dolinšek, "Magnetism of CoCrFeNiZr_x eutectic high-entropy alloys", *Intermetallics*, **93**: 122-133, (2018); doi: [10.1016/j.intermet.2017.11.017](https://doi.org/10.1016/j.intermet.2017.11.017)

● Stanislav Vrtnik, Janez Lužnik, Primož Koželj, Andreja Jelen, Jože Luzar, Zvonko Jagličić, Anton Meden, Michael Feuerbacher, Janez Dolinšek, "Disordered ferromagnetic state in the Ce-Gd-Tb-Dy-Ho hexagonal high-entropy alloy", *Journal of Alloys and Compounds*, **742**: 877-886, (2018); doi: [10.1016/j.jallcom.2018.01.331](https://doi.org/10.1016/j.jallcom.2018.01.331)

● Sara Koohzad, Hamid Golchoubian, Zvonko Jagličić, "A new end-on azido-bridged dicopper(II) complex; syntheses, structure, solvatochromism, magnetic properties, and DFT study", *Journal of Coordination Chemistry*, **71**(16-18): 2540-2556, (2018); doi: [10.1080/00958972.2018.1484114](https://doi.org/10.1080/00958972.2018.1484114)

● Tamara Đorđević, Ljiljana Karanović, Zvonko Jagličić, "A new copper(II) arsenate, Na₂Cu₃(AsO₃OH)₄ · 4H₂O containing discrete [Cu₃O₁₂]¹⁸⁻ units: Synthesis, crystal structure and magnetic properties", *Journal of Solid State Chemistry*, **265**: 55-63, (2018); doi: [10.1016/j.jssc.2018.05.024](https://doi.org/10.1016/j.jssc.2018.05.024)

● Božidar R. Čobeljić, Andrej Pevec, Zvonko Jagličić, Milica Milenković, Iztok Turel, Dušanka Radanović, Marina Milenković, Katarina Anđelković, "Synthesis, characterization and antimicrobial activity of isothiocyanato Fe(III) Girard's T hydrazone complex", *Journal of the Serbian Chemical Society*, **83**(12): 1327-1337, (2018); doi: [10.2298/JSC180828079C](https://doi.org/10.2298/JSC180828079C)

● Elham Safaei, Zahra Alaji, Farhad Panahi, Andrzej Wojtczak, Zvonko Jagličić, "Synthesis and characterization of a novel oxo-bridged binuclear iron(III) complex: its catalytic application in the synthesis of benzoxazoles using benzyl alcohol in water", *New Journal of Chemistry*, **42**(9): 7230-7236, (2018); doi: [10.1039/C8NJ00921J](https://doi.org/10.1039/C8NJ00921J)

● Sara Koohzad, Hamid Golchoubian, Zvonko Jagličić, "Two new end-on cyanato copper(II) complexes; synthesis, characterization, solvatochromism, magnetic investigation and quantum study", *Polyhedron*, **155**: 180-188, (2018); doi: [10.1016/j.poly.2018.08.044](https://doi.org/10.1016/j.poly.2018.08.044)

● Božidar R. Čobeljić, Iztok Turel, Andrej Pevec, Zvonko Jagličić, Dušanka Radanović, Katarina Anđelković, Milica Milenković, "Synthesis, structures and magnetic properties of octahedral Co(III) complexes of heteroaromatic hydrazones with tetrakisothiocyanato Co(II) anions", *Polyhedron*, **155**: 425-432, (2018); doi: [10.1016/j.poly.2018.08.070](https://doi.org/10.1016/j.poly.2018.08.070)

● Nina Kostevšek, Samo Hudoklin, Mateja Erdani-Kreft, Igor Serša, Ana Sepe, Zvonko Jagličić, Jerneja Vidmar, Janez Ščančar, Saša Šturm, Spomenka Kobe, Kristina Žužek Rožman, "Magnetic interactions and in vitro study of biocompatible hydrocaffaic acid-stabilized Fe-Pt clusters as MRI contrast agents", *RSC Advances*, **8**(26): 14694-14704, (2018); doi: [10.1039/c8ra00047f](https://doi.org/10.1039/c8ra00047f)

● Kristina Žužek Rožman, Darja Pečko, Špela Trafela, Zoran Samardžija, Matjaž Spreitzer, Zvonko Jagličić, Peter Nadrah, Mateja Zorko, Marjan Bele, Tatjana Tišler, Albin Pintar, Saša Šturm, Nina Kostevšek, "Austenite-martensite transformation in electrodeposited Fe₇₀Pd₃₀NWs: a step towards making bio-nano-actuators tested on in-vivo systems", *Smart Materials and Structures*, **27**(3) (2018); doi: [10.1088/1361-665X/aaacb0](https://doi.org/10.1088/1361-665X/aaacb0)

2017

● Martin Klanjšek, Andrej Zorko, Rok Žitko, Jernej Mravlje, Zvonko Jagličić, Pabitra Kumar Biswas, Peter Prelovšek, Dragan Mihailović, Denis Arčon, "A high-temperature quantum spin liquid with polaron spins", *Nature Physics*, **13**(11): 1130-1134, (2017); doi: [10.1038/nphys4212](https://doi.org/10.1038/nphys4212)

● Sanja Pršič, Slavica M. Savić, Zorica Branković, Zvonko Jagličić, Stanislav Vrtnik, Goran Branković, "Antiferromagnetism and heat capacity of NaCo_{2-x}Cu_xO₄ ceramics", *Ceramics International*, **43**(2): 2022-2026, (2017); doi: [10.1016/j.ceramint.2016.10.170](https://doi.org/10.1016/j.ceramint.2016.10.170)

● Tomasz Gilewski, Jakub Gawraczyński, Mariana Derzsi, Zvonko Jagličić, Zoran Mazej, Piotr Polczyński, Rafał Jurczakowski, Piotr J. Leszczyński, Wojciech Grochala, "[Ag(OH)₂][Ag(SO₄)₂]: A hydrate of a silver(II) salt", *Chemistry: A European Journal*, **23**(8): 1805-1813, (2017); doi: [10.1002/chem.201604179](https://doi.org/10.1002/chem.201604179)

● Yun-Wu Li, Ling-Yu Guo, Lei Feng, Zvonko Jagličić, Su-Yuan Zeng, Di Sun, "Self-assembly, structures, magnetic properties and solution behaviors of six mixed-valence cobalt clusters", *CrystEngComm*, **19**(39): 5897-5906, (2017); doi: [10.1039/C7CE01375B](https://doi.org/10.1039/C7CE01375B)

● Zoran Mazej, Evgeny A. Goresnik, Zvonko Jagličić, Yaroslav Filinchuk, Nikolay Tumanov, Lev G. Akselrud, "Photochemical synthesis and characterization of xenon(VI) hexafluoridomanganates(IV)", *European Journal of Inorganic Chemistry*, **2017**(14): 2130-2137, (2017); doi: [10.1002/ejic.201700054](https://doi.org/10.1002/ejic.201700054)

● Zoran Mazej, Tomasz Gilewski, Evgeny A. Goresnik, Zvonko Jagličić, Mariana Derzsi, Wojciech Grochala, "Canted antiferromagnetism in two-dimensional silver(II) Bis[pentafluoridooxidotungstate(VI)]", *Inorganic Chemistry*, **56**(1): 224-233, (2017); doi: [10.1021/acs.inorgchem.6b02034](https://doi.org/10.1021/acs.inorgchem.6b02034)

● Zvonko Jagličić, Zoran Mazej, "Antiferromagnetic CsCrF₅ and canted antiferromagnetism in RbCrF₅ and KCrF₅", *Journal of Magnetism and Magnetic Materials*, **434**: 112-117, (2017); doi: [10.1016/j.jmmm.2017.03.048](https://doi.org/10.1016/j.jmmm.2017.03.048)

- Brina Dojer, Andrej Pevec, Zvonko Jagličić, Matjaž Kristl, "Cobalt(II) complexes with hydroxypyridines and halogenides", *Journal of Molecular Structure*, **1128**: 724-729, (2017); doi: [10.1016/j.molstruc.2016.09.023](https://doi.org/10.1016/j.molstruc.2016.09.023)
- Elham Safaei, Hadiseh Bahrami, Andrej Pevec, Bojan Kozlevčar, Zvonko Jagličić, "Copper(II) complex of new non-innocent O-aminophenol-based ligand as biomimetic model for galactose oxidase enzyme in aerobic oxidation of alcohols", *Journal of Molecular Structure*, **1133**: 526-533, (2017); doi: [10.1016/j.molstruc.2016.11.076](https://doi.org/10.1016/j.molstruc.2016.11.076)
- Lidija Radovanović, Jelena Rogan, Dejan Poleti, Marko V. Rodić, Zvonko Jagličić, "Terephthalate-bridged two-dimensional heteronuclear Cu(II)-Mn(II) complex with terminal 2,2'-dipyridylamine ligand", *Journal of the Serbian Chemical Society*, **82**(11): 1247-1258, (2017); doi: [10.2298/JSC170425086R](https://doi.org/10.2298/JSC170425086R)
- Matúš Mihalik, Marián Mihalik, Zvonko Jagličić, Rui Vilarinho, Joaquim Agostinho Moreira, Eugénia Queiros, Pedro B. Tavares, Abílio Almeida, Mária Zentková, "Magnetic phase diagram of the TbMn_{1-x}Fe_xO₃ solid solution system", *Physica B: Condensed Matter*, **506**: 163-167, (2017); doi: [10.1016/j.physb.2016.11.015](https://doi.org/10.1016/j.physb.2016.11.015)
- Jože Buh, Aleš Mrzel, Andrej Kovič, Viktor V. Kabanov, Zvonko Jagličić, Stanislav Vrtnik, Primož Koželj, Dragan Mihailović, "Phase slip and telegraph noise in δ - MoN nanowires", *Physica C: Superconductivity and its Applications*, **535**: 24-29, (2017); doi: [10.1016/j.physc.2017.03.003](https://doi.org/10.1016/j.physc.2017.03.003)
- Elham Safaei, Narges Naghdi, Zvonko Jagličić, Andrej Pevec, Yong-III Lee, "Synthesis and characterization of an iron(III) complex of an ethylenediamine derivative of an aminophenol ligand in relevance to catechol dioxygenase active site", *Polyhedron*, **122**: 116-123, (2017); doi: [10.1016/j.poly.2016.10.034](https://doi.org/10.1016/j.poly.2016.10.034)
- Elham Safei, Hadiseh Bahrami, Andrzej Wojtczak, Saman Alavi, Zvonko Jagličić, "Redox potential tuning by redox-inactive anions in copper(II) complexes of non-innocent o-aminophenol-based ligand containing benzoxazole: Learning from nature", *Polyhedron*, **122**: 219-227, (2017); doi: [10.1016/j.poly.2016.11.031](https://doi.org/10.1016/j.poly.2016.11.031)
- Magdalena Wencka, Stanislav Vrtnik, Primož Koželj, Zvonko Jagličić, Peter Gille, Janez Dolinšek, "Anisotropic electrical, thermal and magnetic properties of Al₁₃Ru₄ decagonal quasicrystalline approximant", *Zeitschrift Für Kristallographie - Crystalline Materials*, **232**(7/9): 647-652, (2017); doi: [10.1515/zkri-2016-2039](https://doi.org/10.1515/zkri-2016-2039)

2016

- Igor Djerdj, Jasminka Popović, Suraj Mal, Tobias Weller, Marko Nuskol, Zvonko Jagličić, Željko Skoko, Damir Pajić, Christian Suchomski, Pascal Voepel, Roland Marschall, Bojan Kozlevčar, Bernd M. Smarsly, "Aqueous sol-gel route toward selected quaternary metal oxides with single and double perovskite-type structure containing tellurium", *Crystal Growth & Design*, **16**(5): 2535-2541, (2016); doi: [10.1021/acs.cgd.5b01558](https://doi.org/10.1021/acs.cgd.5b01558)
- Fei Yang, Yong-Kai Deng, Ling-Yu Guo, Hai-Feng Su, Zvonko Jagličić, Zhen-Yu Feng, Gui-Lin Zhuang, Su-Yuan Zeng, Di Sun, "Structural, electrochemical and magnetic analyses of a new octanuclear Mn^{III}₂Mn^{II}₆ cluster with linked-defect cubane topology", *CrystEngComm*, **18**(8): 1329-1336, (2016); doi: [10.1039/C5CE02215K](https://doi.org/10.1039/C5CE02215K)
- Zhi Wang, Zvonko Jagličić, Lu-Lu Han, Gui-Lin Zhuang, Geng-Geng Luo, Su-Yuan Zeng, Chen-Ho Tung, Di Sun, "Octanuclear Ni(II) cubes based on halogen-substituted pyrazolates: synthesis, structure, electrochemistry and magnetism", *CrystEngComm*, **18**(19): 3462-3471, (2016); doi: [10.1039/C6CE00528D](https://doi.org/10.1039/C6CE00528D)
- Wan-Feng Xie, Ling-Yu Guo, Jia-Heng Xu, Marko Jagodič, Zvonko Jagličić, Wen-Guang Wang, Gui-Lin Zhuang, Zhi Wang, Chen-Ho Tung, Di Sun, "Multifaceted bicubane Co₄ clusters: magnetism, photocatalytic oxygen evolution, and electrical conductivity", *European Journal of Inorganic Chemistry*, **2016**(20): 3253-3261, (2016); doi: [10.1002/ejic.201600510](https://doi.org/10.1002/ejic.201600510)
- Ling-Yu Guo, Su-Yuan Zeng, Zvonko Jagličić, Qi-Dong Hu, Shi-Xuan Wang, Zhi Wang, Di Sun, "A pyridazine-bridged sandwiched cluster incorporating planar hexanuclear cobalt ring and bivalent phosphotungstate", *Inorganic Chemistry*, **55**(17): 9006-9011, (2016); doi: [10.1021/acs.inorgchem.6b01468](https://doi.org/10.1021/acs.inorgchem.6b01468)
- Dominik Kurzydłowski, Tomasz Jaroń, Andrzej Ozarowski, Stephen Hill, Zvonko Jagličić, Yaroslav Filinchuk, Zoran Mazej, Wojciech Grochala, "Local and cooperative Jahn-Teller effect and resultant magnetic properties of M₂AgF₄ (M = Na-Cs) phases", *Inorganic Chemistry*, **55**(21): 11479-11489, (2016); doi: [10.1021/acs.inorgchem.6b02037](https://doi.org/10.1021/acs.inorgchem.6b02037)
- Brina Dojer, Andrej Pevec, Zvonko Jagličić, Mihael Drogenik, Matjaž Kristl, "Nickel(II) pyridinecarboxamide complexes: Solvothermal synthesis, crystal structures and magnetic properties", *Inorganica Chimica Acta*, **446**: 124-131, (2016); doi: [10.1016/j.ica.2016.03.002](https://doi.org/10.1016/j.ica.2016.03.002)
- Matúš Mihalik, Zvonko Jagličić, Magdalena Fitta, Viktor Kavečanský, Kornel Csach, Andrzej Budziak, Jaroslav Briančin, Mária Zentková, Marián Mihalik, "Structural and magnetic study of PrMn_{1-x}Fe_xO₃ compounds", *Journal of Alloys and Compounds*, **687**: 652-661, (2016); doi: [10.1016/j.jallcom.2016.06.177](https://doi.org/10.1016/j.jallcom.2016.06.177)
- Nuša Hojnik, Matjaž Kristl, Gregor Ferik, Amalija Golobič, Matejka Turel, Zvonko Jagličić, Mihael Drogenik, "Complexes of Eu(III), Tb(III) and Cu(II) with proton transfer compound between 2,6-pyridinedicarboxylic acid and 2-aminobenzothiazole: characterization of the structures and physical properties", *Journal of Coordination Chemistry*, **69**(9): 1484-1498, (2016); doi: [10.1080/00958972.2016.1182632](https://doi.org/10.1080/00958972.2016.1182632)
- Branka Babić-Stojić, Vukoman Jokanović, Dušan Milivojević, Miroslav Požek, Zvonko Jagličić, Darko Makovec, Katarina Arskin, Verica Paunović, "Gd₂O₃ nanoparticles stabilized by hydrothermally modified dextrose for positive contrast magnetic resonance imaging", *Journal of Magnetism and Magnetic Materials*, **403**: 118-126, (2016); doi: [10.1016/j.jmmm.2015.11.075](https://doi.org/10.1016/j.jmmm.2015.11.075)
- Simon Jazbec, Shiro Kashimoto, Primož Koželj, Stanislav Vrtnik, Marko Jagodič, Zvonko Jagličić, Janez Dolinšek, "Schottky effect in the i-Zn-Ag-Sc-Tm icosahedral quasicrystal and its 1/1 Zn-Sc-Tm approximant", *Physical Review B*, **93**(5), 054208, (2016); doi: [10.1103/PhysRevB.93.054208](https://doi.org/10.1103/PhysRevB.93.054208)
- Mitja Krnel, Stanislav Vrtnik, Primož Koželj, Andraž Kocjan, Zvonko Jagličić, Pascal Boulet, Marie-Cécile de Weerd, Jean-Marie Dubois, Janez Dolinšek, "Random-anisotropy ferromagnetic state in the Cu₅Gd_(0.54)Ca_(0.42) intermetallic compound", *Physical Review B*, **93**(9), 094202-1-094202-14, (2016); doi: [10.1103/PhysRevB.93.094202](https://doi.org/10.1103/PhysRevB.93.094202)
- Elham Safei, Narges Naghdi, Andrzej Wojtczak, Zvonko Jagličić, "New mixed-ligand 8-hydroxyquinolino iron(III) complexes of dimethylethylenediamine-based aminophenol ligands", *Polyhedron*, **109**: 190-198, (2016); doi: [10.1016/j.poly.2016.01.049](https://doi.org/10.1016/j.poly.2016.01.049)
- Elham Safei, Leila Hajikhanmirzaei, Saman Alavi, Yong-III Lee, Andrzej Wojtczak, Zvonko Jagličić, "Tetrabromocatecholato Mn(III) complexes of bis(phenol) diamine ligands as models for enzyme-substrate adducts of catechol dioxygenases", *Polyhedron*, **118**: 171-179, (2016); doi: [10.1016/j.poly.2016.07.041](https://doi.org/10.1016/j.poly.2016.07.041)

● Alessio Spepi, Celia Duce, Carlo Ferrari, José González-Rivera, Zvonko Jagličić, Valentina Domenici, Francesco Pineider, Maria Rosaria Tiné, "A simple and versatile solvothermal configuration to synthesize superparamagnetic iron oxide nanoparticles using a coaxial microwave antenna", *RSC Advances*, **6**(106): 104366-104374, (2016); doi: [10.1039/C6RA17513A](https://doi.org/10.1039/C6RA17513A)

2015

● Melita Sluban, Polona Umek, Zvonko Jagličić, Jože Buh, Petra Šmitek, Aleš Mrzel, Carla Bittencourt, Peter Guttmann, Marie-Helene Delville, Dragan Mihailović, Denis Arčon, "Controlling disorder and superconductivity in titanium oxynitride nanoribbons with anion exchange", *ACS Nano*, **9**(10): 10133-10141, (2015); doi: [10.1021/acsnano.5b03742](https://doi.org/10.1021/acsnano.5b03742)

● Hyung-Seung Lee, Jinsu Kim, Kyujoon Lee, Andreja Jelen, Stanislav Vrtnik, Zvonko Jagličić, Janez Dolinšek, Myung-Hwa Jung, "Antiferromagnetic order competing with topological state in $Ce_xBi_{2-x}Te_3$ ", *Applied Physics Letters*, **107**(18), 182409, (2015); doi: [10.1063/1.4935120](https://doi.org/10.1063/1.4935120)

● Zorica Branković, Goran Branković, Milica Počuča-Nešić, Zorica Marinković Stanojević, Milan Žunić, Danijela Luković Golić, Ronald Tararam, Mário Cilense, Maria Aparecida Zaghete, Zvonko Jagličić, Marko Jagodič, José A. Varela, "Hydrothermally assisted synthesis of $YMnO_3$ ", *Ceramics International*, **41**(10): 14293-14298, (2015); doi: [10.1016/j.ceramint.2015.07.060](https://doi.org/10.1016/j.ceramint.2015.07.060)

● Lu-Lu Han, Su-Na Wang, Zvonko Jagličić, Su-Yuan Zeng, Jun Zheng, Zhong-Hui Li, Jiang-Shan Chena, Di Sun, "Synthesis, structural versatility and magnetic properties of a series of copper(II) coordination polymers based on bipyrazole and various dicarboxylate ligands", *CrystEngComm*, **17**(6): 1405-1415, (2015); doi: [10.1039/c4ce02248c](https://doi.org/10.1039/c4ce02248c)

● Zoran Mazej, Tomasz Michałowski, Evgeny A. Goreschnik, Zvonko Jagličić, Iztok Arčon, Jadwiga Szydłowska, Wojciech Grochala, "The first example of a mixed valence ternary compound of silver with random distribution of Ag(I) and Ag(II) cations", *Dalton Transactions*, **44**(24): 10957-10969, (2015); doi: [10.1039/c5dt00740b](https://doi.org/10.1039/c5dt00740b)

● Xing-Po Wang, Ya-Qin Zhao, Zvonko Jagličić, Su-Na Wang, Shu-Jie Lin, Xiao-Yi Li, Di Sun, "Controlled in situ reaction for the assembly of Cu(II) mixed-ligand coordination polymers: synthesis, structure, mechanistic insights, magnetism and catalysis", *Dalton Transactions*, **44**(24) (2015); doi: [10.1039/c5dt01206f](https://doi.org/10.1039/c5dt01206f)

● Bojan Kozlevčar, Klemen Jakomin, Marta Počkaj, Zvonko Jagličić, Andreas Beyer, Nicolai Burzlaff, Nives Kitanovski, "Dinuclear nitrate coordination compounds with bis(3,5-tert-butylpyrazol-1-yl)acetate", *European Journal of Inorganic Chemistry*, **2015**(22): 3688-3693, (2015); doi: [10.1002/ejic.201500368](https://doi.org/10.1002/ejic.201500368)

● Tomasz Michalowski, Zoran Mazej, Armand Budzianowski, Zvonko Jagličić, Piotr J. Leszczyński, Wojciech Grochala, "Unexpectedly complex crystalline phases in the $MSO_3F - Ag(SO_3F)_2$ phase diagram (M = Na, K, Rb, Cs)", *European Journal of Inorganic Chemistry*, **2015**(2): 324-332, (2015); doi: [10.1002/ejic.201402948](https://doi.org/10.1002/ejic.201402948)

● Tuo-Ping Hu, Ya-Qin Zhao, Zvonko Jagličić, Kai Yu, Xing-Po Wang, Di Sun, "Four hybrid materials based on Preyssler P_5W_{30} polyoxometalate and first-row transition-metal complex", *Inorganic Chemistry*, **54**(15) (2015); doi: [10.1021/acs.inorgchem.5b00962](https://doi.org/10.1021/acs.inorgchem.5b00962)

● Leila Hajikhanmirzaei, Elham Safei, Andrzej Wojtczak, Zvonko Jagličić, "New mixed-ligand salicylaldehyde complexes of Mn(III) bis(phenol) diamine: Synthesis, electronic and magnetic properties", *Inorganica Chimica Acta*, **430**: 125-131, (2015); doi: [10.1016/j.ica.2015.02.025](https://doi.org/10.1016/j.ica.2015.02.025)

● Magdalena Wencka, Judith Schwerin, Martin Klanjšek, Mitja Krnel, Stanislav Vrtnik, Primož Koželj, Andreja Jelen, Gregor Kapun, Zvonko Jagličić, Irek Sharafutdinov, Ib Chorkendorff, Peter Gille, Janez Dolinšek, "Physical properties of the $GaPd_2$ intermetallic catalyst in bulk and nanoparticle morphology", *Intermetallics*, **67**: 35-46, (2015); doi: [10.1016/j.intermet.2015.07.010](https://doi.org/10.1016/j.intermet.2015.07.010)

● Gregor Ferik, Janja Stergar, Darko Makovec, Anton Hamler, Zvonko Jagličić, Mihael Drofienik, Irena Ban, "Synthesis and characterization of Ni-Cu alloy nanoparticles with a tunable Curie temperature", *Journal of Alloys and Compounds*, **648**: 53-58, (2015); doi: [10.1016/j.jallcom.2015.06.067](https://doi.org/10.1016/j.jallcom.2015.06.067)

● Nuša Hojnik, Matjaž Kristl, Amalija Golobič, Zvonko Jagličić, Mihael Drofienik, "Hydrolytic synthesis of novel lanthanide(III) complexes with pyridine-2,6-dicarboxylic acid", *Journal of Molecular Structure*, **1079**: 54-60, (2015); doi: [10.1016/j.molstruc.2014.09.029](https://doi.org/10.1016/j.molstruc.2014.09.029)

● Maryam Poureskandari, Elham Safei, Seyedeh Maryam Sajjadi, Touraj Karimpour, Zvonko Jagličić, Yong-III Lee, "Iron(III) complex of N-phenylethylenediamine derivative of amine bis(phenol) ligand as model for catechol dioxygenase: Synthesis, characterization and complexation studies", *Journal of Molecular Structure*, **1094**: 130-136, (2015); doi: [10.1016/j.molstruc.2015.04.008](https://doi.org/10.1016/j.molstruc.2015.04.008)

● Patricia Cotič Smole, Dejan Kolarič, Violeta Bokan-Bosiljkov, Vlatko Bosiljkov, Zvonko Jagličić, "Determination of the applicability and limits of void and delamination detection in concrete structures using infrared thermography", *NDT & E International*, **74**: 87-93, (2015); doi: [10.1016/j.ndteint.2015.05.003](https://doi.org/10.1016/j.ndteint.2015.05.003)

● Janez Lužnik, Primož Koželj, Stanislav Vrtnik, Andreja Jelen, Zvonko Jagličić, Anton Meden, Michael Feuerbacher, Janez Dolinšek, "Complex magnetism of Ho-Dy-Y-Gd-Tb hexagonal high-entropy alloy", *Physical Review B, Condensed Matter and Materials Physics*, **92**(22), 224201, (2015); doi: [10.1103/PhysRevB.92.224201](https://doi.org/10.1103/PhysRevB.92.224201)

● Tamara Đorđević, Astrid Wittwer, Zvonko Jagličić, Igor Djerđ, "Hydrothermal synthesis of single crystal $CoAs_2O_4$ and $NiAs_2O_4$ compounds and their magnetic properties", *RSC Advances*, **5**(24): 18280-18287, (2015); doi: [10.1039/C4RA16122J](https://doi.org/10.1039/C4RA16122J)

● Andrej Zorko, Matej Pregelj, Matjaž Gomilšek, Zvonko Jagličić, Damir Pajić, Mark Telling, Iztok Arčon, Iuliia Mikulska, Matjaž Valant, "Strain-induced extrinsic high-temperature ferromagnetism in the Fe-doped hexagonal barium titanate", *Scientific Reports*, **5**: 7703-1-7703-7, (2015); doi: [10.1038/srep07703](https://doi.org/10.1038/srep07703)

2014

● Nuša Hojnik, Matjaž Kristl, Amalija Golobič, Zvonko Jagličić, Mihael Drofienik, "The synthesis, structure and physical properties of lanthanide(III) complexes with nicotinic acid", *Central European Journal of Chemistry*, **12**(2): 220-226, (2014); doi: [10.2478/s11532-013-0366-5](https://doi.org/10.2478/s11532-013-0366-5)

● Slavica M. Savić, Marin Tadić, Zvonko Jagličić, Katarina Vojisavljević, Lidija Mančić, Goran Branković, "Structural, electrical and magnetic properties of nickel manganite obtained by a complex polymerization method", *Ceramics International*, **40**(10): 15515-15521, (2014); doi: [10.1016/j.ceramint.2014.07.024](https://doi.org/10.1016/j.ceramint.2014.07.024)

● Christian Suchomski, Christian Reitz, Damir Pajić, Zvonko Jagličić, Igor Djerđ, Torsten Brezesinski, "Large-pore mesoporous $Ho_3Fe_5O_{12}$ thin films with a strong room-temperature perpendicular magnetic anisotropy by sol-gel processing", *Chemistry of Materials*, **26**(7) (2014); doi: [10.1021/cm5003324](https://doi.org/10.1021/cm5003324)

- Patricia Cotič Smole, Primož Murn, Dejan Kolarič, Zvonko Jagličič, Vlatko Bosiljkov, "Uporaba pulzne termografije za neporušne preiskave v gradbeništvu = Application of pulsed thermography in non-destructive testing in civil engineering", *Gradbeni Vestnik: Glasilo Zveze Društev Gradbenih Inženirjev in Tehnikov Slovenije*, **63**(5): 119-129, (2014); [COBISS ID [17043033](#)]
- Magdalena Wencka, Michael Hahne, Andraž Kocjan, Stanislav Vrtnik, Primož Koželj, Domen Korže, Zvonko Jagličič, Marija Sorič, Peter Popčević, Jovica Ivkov, Ana Smontara, Peter Gille, Stefan Jurga, Petr Tomeš, Silke Paschen, Alim Ormeci, Marc Armbrüster, Yuri Grin, Janez Dolinšek, "Physical properties of the InPd intermetallic catalyst", *Intermetallics*, **55**: 56-65, (2014); doi: [10.1016/j.intermet.2014.07.007](#)
- Simon Jazbec, Stanislav Vrtnik, Zvonko Jagličič, Shiro Kashimoto, Jovica Ivkov, Peter Popčević, Ana Smontara, Hae Jin Kim, Jin Gyu Kim, Janez Dolinšek, "Electronic density of states and metastability of icosahedral Au-Al-Yb quasicrystal", *Journal of Alloys and Compounds*, **586**: 343-348, (2014); doi: [10.1016/j.jallcom.2013.10.073](#)
- Marin Tadić, Slavica M. Savić, Zvonko Jagličič, Katarina Vojisavljević, Aleksandar Radojković, Sanja Pršič, Dobrica Nikolić, "Magnetic properties of NiMn₂O_{4-δ} (nickel manganite) emultiple magnetic phase transitions and exchange bias effect: multiple magnetic phase transitions and exchange bias effect", *Journal of Alloys and Compounds*, **588**: 465-469, (2014); doi: [10.1016/j.jallcom.2013.11.025](#)
- Dušan Milivojević, Branka Babić-Stojić, Vukoman Jokanović, Zvonko Jagličič, Darko Makovec, Nataša Jović Orsini, "Magnetic properties of ultrasmall iron-oxide nanoparticles", *Journal of Alloys and Compounds*, **595**: 153-157, (2014); doi: [10.1016/j.jallcom.2014.01.112](#)
- Patricia Cotič Smole, Zvonko Jagličič, Vlatko Bosiljkov, "Validation of non-destructive characterization of the structure and seismic damage propagation of plaster and texture in multi-leaf stone masonry walls of cultural-artistic value", *Journal of Cultural Heritage*, **15**(5): 490-498, (2014); doi: [10.1016/j.culher.2013.11.004](#)
- Gregor Ferik, Mihael Drogenik, Darja Lisjak, Anton Hamler, Zvonko Jagličič, Darko Makovec, "Synthesis and characterization of Mg_{1+x}Fe_{2-2x}Ti_xO₄ nanoparticles with an adjustable Curie point", *Journal of Magnetism and Magnetic Materials*, **350**: 124-128, (2014); doi: [10.1016/j.jmmm.2013.09.037](#)
- Brina Dojer, Andrej Pevec, Ferdinand Belaj, Zvonko Jagličič, Matjaž Kristl, Mihael Drogenik, "Structural and magnetic properties of cobalt(II) complexes with pyridinecarboxamide ligands", *Journal of Molecular Structure*, **1076**: 713-718, (2014); doi: [10.1016/j.molstruc.2014.08.031](#)
- Jin Bae Lee, Hae Jin Kim, Janez Lužnik, Andreja Jelen, Damir Pajić, Magdalena Wencka, Zvonko Jagličič, Anton Meden, Janez Dolinšek, "Synthesis and magnetic properties of hematite particles in a "nanomedusa" morphology", *Journal of Nanomaterials*, **2014**, 902968, (2014); doi: [10.1155/2014/902968](#)
- Branka Babić-Stojić, Vukoman Jokanović, Dušan Milivojević, Miroslav Požek, Zvonko Jagličič, Darko Makovec, Katarina Arsin, Verica Paunović, "NMR relaxometric properties and cytotoxicity of Gd₂O₃ nanoparticle suspensions in an organic liquid", *Journal of Nanoparticle Research*, **16**(10), 2663, (2014); doi: [10.1007/s11051-014-2663-0](#)
- Patricia Cotič Smole, Zvonko Jagličič, Ernst Niederleithinger, Markus Stoppel, Vlatko Bosiljkov, "Image fusion for improved detection of near-surface defects in NDT-CE using unsupervised clustering methods", *Journal of Nondestructive Evaluation*, **33**(3): 284-397, (2014); doi: [10.1007/s10921-014-0232-1](#)
- Gregor Ferik, Janja Stergar, Mihael Drogenik, Darko Makovec, Anton Hamler, Zvonko Jagličič, Irena Ban, "The synthesis and characterization of copper-nickel alloy nanoparticles with a narrow size distribution using sol-gel synthesis", *Materials Letters*, **124**: 39-42, (2014); doi: [10.1016/j.matvol.2014.03.030](#)
- Jože Buh, Andrej Kovič, Aleš Mrzel, Zvonko Jagličič, Adolf Jesih, Dragan Mihailović, "Template synthesis of single-phase δ₃-MoN superconducting nanowires", *Nanotechnology*, **25**(2), 025601, (2014); doi: [10.1088/0957-4484/25/2/025601](#)
- Primož Koželj, Stanislav Vrtnik, Andreja Jelen, Simon Jazbec, Zvonko Jagličič, Soumyadipta Maiti, Michael Feuerbacher, Walter Steurer, Janez Dolinšek, "Discovery of a superconducting high-entropy alloy", *Physical Review Letters*, **113**(10), 107001, (2014); doi: [10.1103/PhysRevLett.113.107001](#)
- Zuzana Vasková, Nives Kitanovski, Zvonko Jagličič, Peter Strauch, Zdeňka Růžicková, Dušan Valigura, Marian Koman, Bojan Kozlevčar, Jan Moncol, "Synthesis and magneto-structural characterization of copper(II) nitrobenzoate complexes containing nicotinamide or methylnicotinamide ligands", *Polyhedron*, **81**(1): 555-563, (2014); doi: [10.1016/j.poly.2014.07.017](#)

2013

- Tadeja Birsa Čelič, Zvonko Jagličič, Karoly Lazar, Nataša Zabukovec Logar, "Structure and magnetic properties of a new iron (II) citrate coordination polymer", *Acta Crystallographica. Section B, Structural Science, Crystal Engineering and Materials*, **B69**(5): 490-495, (2013); doi: [10.1107/S2052519213023713](#)
- Zvonko Jagličič, Damir Pajić, Zvonko Trontelj, Janez Dolinšek, Marko Jagodič, "Magnetic memory effect in multiferroic K₃Fe₅F₁₅ and K₃Cr₂Fe₃F₁₅", *Applied Physics Letters*, **102**(24), 242410, (2013); doi: [10.1063/1.4811762](#)
- Ana Mraković, Jovan Blanuša, Darinka Primc, Marija Perović, Zvonko Jagličič, Vladan Kusigerski, Vojislav Spasojević, "Modified self-propagating high-temperature synthesis of nanosized La_{0.7}Ca_{0.3}MnO₃", *Ceramics International*, **39**(4): 3771-3777, (2013); doi: [10.1016/j.ceramint.2012.10.216](#)
- Dominik Kurzydłowski, Zoran Mazej, Zvonko Jagličič, Yaroslav Filinchuk, Wojciech Grochala, "Structural transition and unusually strong antiferromagnetic superexchange coupling in perovskite KAgF₃", *Chemical Communications*, **49**(56): 6262-6264, (2013); doi: [10.1039/C3CC41521J](#)
- Marijana Đaković, Diogo Vila-Viçosa, Nuno A. G. Bandeira, Maria José Calhorda, Bojan Kozlevčar, Zvonko Jagličič, Zora Popović, "Can self-assembly of copper(II) picolinamide building blocks be controlled?", *CrystEngComm*, **15**(40): 8074-8087, (2013); doi: [10.1039/c3ce41011k](#)
- Sara Dolci, Vincenzo Ieraldi, Anton Gradišek, Zvonko Jagličič, Maja Remškar, Tomaž Apih, Mario Cifelli, Guido Pampaloni, Carlo Alberto Veracini, Valentina Domenici, "Precursors of magnetic resonance imaging contrast agents based on cystine-coated iron-oxide nanoparticles", *Current Physical Chemistry*, **3**(4): 493-500, (2013); doi: [10.2174/18779468113036660009](#)
- Andrii Vakulka, Evgeny A. Goreshnik, Zvonko Jagličič, Zvonko Trontelj, "Synthesis, characterization and weak ferromagnetic coupling in [Cu₂(μ₃-CO₃)(SCN)₂(py)₄]_n", *Inorganic Chemistry Communications*, **35**: 295-296, (2013); doi: [10.1016/j.inoche.2013.06.029](#)
- Christian Reitz, Christian Suchomski, Venkata Sai Kiran Chakravadhanula Chakravadhanula, Igor Djerdj, Zvonko Jagličič, Torsten Brezesinski, "Morphology, microstructure, and magnetic properties of ordered large-pore mesoporous cadmium ferrite thin film spin glasses", *Inorganic Chemistry*,

- Touraj Karimpour, Elham Safei, Andrzej Wojtczak (scribe), Zvonko Jagličić, Anna Kozakiewicz, "Iron(III) complexes of ethylenediamine derivatives of aminophenol ligands as models for enzyme-substrate adducts of catechol dioxygenases", *Inorganica Chimica Acta*, **395**(1): 124-134, (2013); doi: [10.1016/j.ica.2012.10.015](https://doi.org/10.1016/j.ica.2012.10.015)
 - Touraj Karimpour, Elham Safei, Andrzej Wojtczak, Zvonko Jagličić, "Models for enzyme-substrate adduct of non-heme iron-containing enzymes, synthesis and characterization", *Inorganica Chimica Acta*, **405**: 309-317, (2013); doi: [10.1016/j.ica.2013.06.023](https://doi.org/10.1016/j.ica.2013.06.023)
 - Branka Babić-Stojić, Vojka Jokanović, Dušan Milivojević, Zvonko Jagličić, Darko Makovec, N. Jović, Milena Marinović Cincović, "Magnetic properties and magnetic relaxation in a suspension of CoFe₂O₄ nanoparticles", *Journal of Applied Physics*, **113**(23), 234311, (2013); doi: [10.1063/1.4811537](https://doi.org/10.1063/1.4811537)
 - Nina Lokar, Andreja Jelen, Stanislav Vrtnik, Zvonko Jagličić, Magdalena Wencka, Radovan Starc, Aleš Blinc, Janez Dolinšek, "Quantitative determination of magnetic force on a coronary stent in MRI", *Journal of Magnetic Resonance Imaging*, **37**(2): 391-397, (2013); doi: [10.1002/jmri.23831](https://doi.org/10.1002/jmri.23831)
 - George Diamantopoulos, Georgia Basina, Vasileios Tzitzios, Eleni Karakosta, Michale Fardis, Zvonko Jagličić, Nikolaos Lazaridis, Georgios Papavassiliou, "Magnetic hyperthermia of laponite based ferrofluid", *Journal of Magnetism and Magnetic Materials*, **336**: 71-74, (2013); doi: [10.1016/j.jmmm.2013.02.022](https://doi.org/10.1016/j.jmmm.2013.02.022)
 - Sara Dolci, Vincenzo Ierardi, Maja Remškar, Zvonko Jagličić, Francesco Pineider, Adriano Boni, Guido Pampaloni, Carlo Alberto Veracini, Valentina Domenici, "Chemical-physical properties, morphology, and magnetic investigations on new cystine functionalized ultra-small superparamagnetic iron-oxide nanoparticles", *Journal of Materials Science*, **48**(3): 1283-1291, (2013); doi: [10.1007/s10853-012-6871-7](https://doi.org/10.1007/s10853-012-6871-7)
 - Branka Babić-Stojić, Vukoman Jokanović, Dušan Milivojević, Zvonko Jagličić, Darko Makovec, Nataša Jović Orsini, Milena Marinović Cincović, "Magnetic and structural studies of CoFe₂O₄ nanoparticles suspended in an organic liquid", *Journal of Nanomaterials*, **2013**, 741036, (2013); doi: [10.1155/2013/741036](https://doi.org/10.1155/2013/741036)
 - Stanislav Vrtnik, Simon Jazbec, Marko Jagodič, Anže Korelec, Larisa Hosnar, Zvonko Jagličić, Peter Jeglič, Michael Feuerbacher, U. Mizutani, Janez Dolinšek, "Stabilization mechanism of gamma – Mg₁₇Al₁₂ and β – Mg₂Al₃ complex metallic alloys", *Journal of Physics: Condensed Matter*, **25**(42), 425703, (2013); doi: [10.1088/0953-8984/25/42/425703](https://doi.org/10.1088/0953-8984/25/42/425703)
 - Damir Pajić, Marko Jagodič, Zvonko Jagličić, Janez Holc, Marija Kosec, Zvonko Trontelj, "Competing antiferromagnetism and local magnetic order in the bulk ceramic PZT-PFW multiferroic system: searching for the most promising ratio between PZT and PFW", *Journal of Physics D, Applied Physics*, **46**(45) (2013); doi: [10.1088/0022-3727/46/45/455001](https://doi.org/10.1088/0022-3727/46/45/455001)
 - Patricia Cotič Smole, Zvonko Jagličić, Ernst Niederleithinger, Ute Effner, Sabine Kruschwitz, Christiane Trela, Vlatko Bosiljkov, "Effect of moisture on the reliability of void detection in brickwork masonry using radar, ultrasonic and complex resistivity tomography", *Materials and Structures*, **46**: 1723-1735, (2013); doi: [10.1617/s11527-012-0011-3](https://doi.org/10.1617/s11527-012-0011-3)
 - Mirta Herak, Andrej Zorko, Matej Pregelj, Oksana Zaharko, Gregor Posnjak, Zvonko Jagličić, Anton Potočnik, Hubertus Luetkens, J. van Tol, Andrej Ozarowski, Helmuth Berger, Denis Arčon, "Magnetic order and low-energy excitations in the quasi-one-dimensional antiferromagnet CuSe₂O₅ with staggered fields", *Physical Review B, Condensed Matter and Materials Physics*, **87**(10), 104413, (2013); doi: [10.1103/PhysRevB.87.104413](https://doi.org/10.1103/PhysRevB.87.104413)
 - Primož Koželj, Simon Jazbec, Stanislav Vrtnik, Andreja Jelen, Janez Dolinšek, Marko Jagodič, Zvonko Jagličić, Pascal Boulet, Marie-Cécile de Weerd, J. Ledieu, Jean-Marie Dubois, Vincent Fournée, "Geometrically frustrated magnetism of spins on icosahedral clusters: Tshe Gd₃Au₁₃Sn₄ quasicrystalline approximant", *Physical Review B, Condensed Matter and Materials Physics*, **88**(21), 214202, (2013); doi: [10.1103/PhysRevB.88.214202](https://doi.org/10.1103/PhysRevB.88.214202)
 - Matej Pregelj, Andrej Zorko, Oksana Zaharko, Peter Jeglič, Zdravko Kutnjak, Zvonko Jagličić, Simon Jazbec, Hubertus Luetkens, A. D. Hillier, Helmuth Berger, Denis Arčon, "Multiferroicity in the geometrically frustrated FeTe₂O₅Cl", *Physical Review B, Condensed Matter and Materials Physics*, **88**(22), 224421, (2013); doi: [10.1103/PhysRevB.88.224421](https://doi.org/10.1103/PhysRevB.88.224421)
 - Brigita Rožič, Marko Jagodič, Sašo Gyergyek, Zvonko Jagličić, Samo Kralj, Vasileios Tzitzios, George Cordoyiannis, Zdravko Kutnjak, "Indirect magnetoelectric coupling in mixtures of magnetite and ferroelectric liquid crystal", *Ferroelectrics*, **448**(1): 12-16, (2013); doi: [10.1080/00150193.2013.822263](https://doi.org/10.1080/00150193.2013.822263)
 - Dušan Milivojević, Branka Babić-Stojić, Vukoman Jokanović, Zvonko Jagličić, Dušan Branković, Nataša Jović, Božana Čolović, Svetlana Čupić, Dušan Kojić, "Sol-gel as a method to tailor the magnetic properties of Co_{1+y}Al_{2-y}O₄", *Science of Sintering*, **45**(1): 69-78, (2013); doi: [10.2298/SOS1301069M](https://doi.org/10.2298/SOS1301069M)
- 2012**
- Gregor Ferik, Irena Ban, Janja Stergar, Darko Makovec, Anton Hamler, Zvonko Jagličić, Mihael Drogenik, "A facile route to the synthesis of coated maghemite nanocomposites for hyperthermia applications", *Acta Chimica Slovenica*, **59**(2): 366-374, (2012); <http://acta-arhiv.chem-soc.si/59/59-2-366.pdf>
 - Brina Dojer, Matjaž Kristl, Zvonko Jagličić, Amalija Golobič, Marta Počkaj, Mihael Drogenik, "Synthesis, crystal structure and magnetic properties of a new hydroxylammonium fluoroferrate", *Acta Chimica Slovenica*, **59**(4): 789-794, (2012); <http://acta-arhiv.chem-soc.si/59/59-4-789.pdf>
 - Christian Reitz, Christian Suchomski, Jan Haetge, Thomas Leichtweiss, Zvonko Jagličić, Igor Djerdj, Torsten Brezesinski, "Soft-templating synthesis of mesoporous magnetic CuFe₂O₄ thin films with ordered 3D honeycomb structure and partially inverted nanocrystalline spinel domains", *Chemical Communications*, **48**(37) (2012); doi: [10.1039/C2CC31006F](https://doi.org/10.1039/C2CC31006F)
 - Igor Djerdj, Srečo D. Škapin, Miran Čeh, Zvonko Jagličić, Damir Pajić, Bojan Kozlevčar, Bojan Orel, Zorica Crnjak Orel, "Interplay between the structural and magnetic probes in the elucidation of the structure of a novel 2D layered V₄O₄(OH)₂(O₂CC₆H₄CO₂)₄] DMF", *Dalton Transactions*, **41**(2): 581-589, (2012); doi: [10.1039/C1DT10985E](https://doi.org/10.1039/C1DT10985E)
 - Mohammad Mahdi Najafpour, Warwick Hillier, Amir Nasser Shamkhali, Mojtaba Amini, Katrin Beckmann, Zvonko Jagličić, Marko Jagodič, Peter Strauch, Atefeh Nemati Moghaddam, Giangiacomo Beretta, Mohsen Bagherzadeh, "Synthesis, characterization, DFT studies and catalytic activities of manganese(II) complex with 1,4-bis(2,2':6:2"-terpyridin-4'-yl) benzene", *Dalton Transactions*, **41**(39): 12282-12288, (2012); doi: [10.1039/C2DT31544K](https://doi.org/10.1039/C2DT31544K)

- Andrew J. Churchard, Mariana Derzsi, Zvonko Jagličić, Arndt Remhof, Wojciech Grochala, "Chemo-switched chromatic, magnetic and structural changes with retention of molecular crystallinity, Ni(12aneS₄)(BF₄)₂", *Dalton Transactions*, **41**(17): 5172-5176, (2012); doi: [10.1039/C2DT12468H](https://doi.org/10.1039/C2DT12468H)
- Zoran Mazej, Evgeny A. Goreschnik, Zvonko Jagličić, "Syntheses and crystal structures of [H₃O]⁺/M²⁺ (M = Fe, Zn, Cu, Hg) salts with [AsF₆]⁻", *European Journal of Inorganic Chemistry*, **2012**(11): 1734-1741, (2012); doi: [10.1002/ejic.201101303](https://doi.org/10.1002/ejic.201101303)
- Bojan Kozlevčar, Nives Kitanovski, Zvonko Jagličić, Nuno A. G. Bandeira, Vincent Robert, Boris Le Guennic, Patrick Gamez, "Cis-trans isomeric and polymorphic effects on the magnetic properties of water-bridged copper coordination chains", *Inorganic Chemistry*, **51**(5): 3094-3102, (2012); doi: [10.1021/ic202568y](https://doi.org/10.1021/ic202568y)
- Damir Pajić, Zvonko Jagličić, Zvonko Trontelj, "Slow magnetic dynamics in the K₃M₃^{II}M₂^{III}F₁₅ multiferroic system", *Journal of Applied Physics*, **112**(7), 073908, (2012); doi: [10.1063/1.4757006](https://doi.org/10.1063/1.4757006)
- Igor Djerdj, Jasminka Popović, Jernej Stare, Gabriela Ambrožič, Srečo D. Škapin, Bojan Kozlevčar, Damir Pajić, Zvonko Jagličić, Zorica Crnjak Orel, "Nanocrystalline hybrid inorganic-organic one-dimensional chain systems tailored with 2- and 3-phenyl ring monocarboxylic acids", *Journal of Materials Chemistry*, **22**(20): 10255-10265, (2012); doi: [10.1039/c2jm16213j](https://doi.org/10.1039/c2jm16213j)
- Polona Umek, Carla Bittencourt, Alexandre Gloter, Robert Dominko, Zvonko Jagličić, Pavel Cevc, Denis Arčon, "Local coordination and valence states of cobalt in sodium titanate nanoribbons", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **116**(20): 11357-11363, (2012); doi: [10.1021/jp3012238](https://doi.org/10.1021/jp3012238)
- Martin Klanjšek, Anton Gradišek, Andraž Kocjan, Matej Bobnar, Peter Jeglič, Magdalena Wencka, Zvonko Jagličić, Petar Popčević, Jovica Ivkov, Ana Smontara, Peter Gille, M. Armbrüster, Yuri Grin, Janez Dolinšek, "PdGa intermetallic hydrogenation catalyst: an NMR and physical property study", *Journal of Physics: Condensed Matter*, **24**(8), 085703, (2012); doi: [10.1088/0953-8984/24/8/085703](https://doi.org/10.1088/0953-8984/24/8/085703)
- Zvonko Jagličić, Mária Zentková, Marián Mihalik, Zdeněk Arnold, Mihael Drofenik, Matjaž Kristl, Brina Dojer, Marta Počkaj, Amalija Golobič, Marko Jagodič, "Exchange bias in bulk layered hydroxylammonium fluorocobaltate (NH₃OH)₂CoF₄", *Journal of Physics: Condensed Matter*, **24**(5), 056002, (2012); doi: [10.1088/0953-8984/24/5/056002](https://doi.org/10.1088/0953-8984/24/5/056002)
- Dušan Milivojević, Branka Babić-Stojić, Vukoman Jokanović, Zvonko Jagličić, Dušan Branković, Nataša Jović, Svetlana Čupić, Dušan Kojić, "Magnetic properties of Co_{1+y}Al_{2-y}O₄ – SiO₂ nanocomposites synthesized by sol-gel method", *Journal of Sol-gel Science and Technology*, **63**(1): 56-64, (2012); doi: [10.1007/s10971-012-2763-1](https://doi.org/10.1007/s10971-012-2763-1)
- Brina Dojer, Amalija Golobič, Zvonko Jagličić, Matjaž Kristl, Mihael Drofenik, "Two new nickel(II) carboxylates with 3- and 4-aminopyridine: syntheses, structures, and magnetic properties", *Monatshfte Für Chemie*, **143**(1): 73-78, (2012); doi: [10.1007/s00706-011-0578-3](https://doi.org/10.1007/s00706-011-0578-3)
- Brina Dojer, Amalija Golobič, Zvonko Jagličić, Matjaž Kristl, Mihael Drofenik, "Hydroxylammonium fluorometalate: synthesis and characterisation of a new fluorozincate", *Monatshfte Für Chemie*, **143**(2): 175-180, (2012); doi: [10.1007/s00706-011-0667-3](https://doi.org/10.1007/s00706-011-0667-3)
- Matej Bobnar, Peter Jeglič, Martin Klanjšek, Zvonko Jagličić, Magdalena Wencka, Petar Popčević, Jovica Ivkov, Denis Stanić, Ana Smontara, Peter Gille, Janez Dolinšek, "Intrinsic anisotropic magnetic, electrical, and thermal transport properties of d-Al-Co-Ni decagonal quasicrystals", *Physical Review B, Condensed Matter and Materials Physics*, **85**(2), 024205, (2012); doi: [10.1103/PhysRevB.85.024205](https://doi.org/10.1103/PhysRevB.85.024205)
- Simon Jazbec, Primož Koželj, Stanislav Vrtnik, Zvonko Jagličić, Petar Popčević, Jovica Ivkov, D. Stanić, Ana Smontara, Michael Feuerbacher, Janez Dolinšek, "Electrical, magnetic, and thermal properties of the δ – FeZn₁₀ complex intermetallic phase", *Physical Review B, Condensed Matter and Materials Physics*, **86**(6), 064205, (2012); doi: [10.1103/PhysRevB.86.064205](https://doi.org/10.1103/PhysRevB.86.064205)
- Jin Bae Lee, Won G. Hong, Hae Jin Kim, Zvonko Jagličić, Simon Jazbec, Magdalena Wencka, Andreja Jelen, Janez Dolinšek, "Canted antiferromagnetism on a nanodimensional spherical surface geometry: The case of MnCO[sub]3 small hollow nanospheres", *Physical Review B, Condensed Matter and Materials Physics*, **86**(22), 224407, (2012); doi: [10.1103/PhysRevB.86.224407](https://doi.org/10.1103/PhysRevB.86.224407)
- Brigita Rožič, Marko Jagodič, Sašo Gyergyek, Mihael Drofenik, Samo Kralj, Zvonko Jagličić, Zdravko Kutnjak, "Mixtures of magnetic nanoparticles and the ferroelectric liquid crystal: New soft magnetoelectrics", *Ferroelectrics*, **431**(1): 150-153, (2012); doi: [10.1080/00150193.2012.684978](https://doi.org/10.1080/00150193.2012.684978)

2011

- Przemyslaw Malinowski, Zoran Mazej, Mariana Derzsi, Zvonko Jagličić, Jadwiga Szydłowska, Tomasz Gilewski, Wojciech Grochala, "Silver(II) triflate with one-dimensional [Ag(II)(SO₃CF₃)_{4/2}]_∞ chains hosting antiferromagnetism", *CrystEngComm*, **13**(22): 6871-6879, (2011); doi: [10.1039/C1CE05712J](https://doi.org/10.1039/C1CE05712J)
- Bojan Kozlevčar, Patrick Gamez, René de Gelder, Zvonko Jagličić, Peter Strauch, Nives Kitanovski, Jan Reedijk, "Counterion and solvent effects on the primary coordination sphere of copper(II) bis(3,5-dimethylpyrazol-1-yl)acetic acid coordination compounds", *European Journal of Inorganic Chemistry*, **2011**(24): 3650-3655, (2011); doi: [10.1002/ejic.201100410](https://doi.org/10.1002/ejic.201100410)
- Przemyslaw Malinowski, Mariana Derzsi, Zoran Mazej, Zvonko Jagličić, Piotr J. Leszczyński, Tomasz Michalowski, Wojciech Grochala, "Silver(II) fluorosulfate: A thermally fragile ferromagnetic derivative of divalent silver in an oxal-ligand environment", *European Journal of Inorganic Chemistry*, **2011**(16): 2499-2507, (2011); doi: [10.1002/ejic.201100077](https://doi.org/10.1002/ejic.201100077)
- Tomasz Michalowski, Przemyslaw Malinowski, Mariana Derzsi, Zoran Mazej, Zvonko Jagličić, Piotr J. Leszczyński, Wojciech Grochala, "Ag[sub]3(SO[sub]3F)[sub]4: a rare example of a mixed-valent Ag^{II}/Ag^I compound showing 1D antiferromagnetism", *European Journal of Inorganic Chemistry*, **2011**(16): 2508-2516, (2011); doi: [10.1002/ejic.201100110](https://doi.org/10.1002/ejic.201100110)
- Brigita Rožič, Marko Jagodič, Sašo Gyergyek, Mihael Drofenik, Samo Kralj, Gojmir Lahajnar, Zvonko Jagličić, Zdravko Kutnjak, "Orientational order-magnetization coupling in mixtures of magnetic nanoparticles and the ferroelectric liquid crystal", *Ferroelectrics*, **410**(1): 37-41, (2011); doi: [10.1080/00150193.2010.492037](https://doi.org/10.1080/00150193.2010.492037)
- Mohammad Mahdi Najafpour, Bojan Kozlevčar, Vickie McKee, Zvonko Jagličić, Marko Jagodič, "The first pentanuclear heterobimetallic coordination cation with Ce^{III}, Ce^{IV} and Mn^{II}", *Inorganic Chemistry Communications*, **14**(1): 125-127, (2011); doi: [10.1016/j.inoche.2010.10.002](https://doi.org/10.1016/j.inoche.2010.10.002)
- Elham Safaei, Masoume Mohseni Kabir, Andrzej Wojtczak, Zvonko Jagličić, Anna Kozakiewicz, Yong-Il Lee, "Synthesis, crystal structure, magnetic and redox properties of copper(II) complexes of N-alkyl(aryl) tBu-salicylaldimines", *Inorganica Chimica Acta*, **366**(1): 275-282, (2011); doi: [10.1016/j.ica.2010.11.017](https://doi.org/10.1016/j.ica.2010.11.017)

- Damir Pajić, Zvonko Jagličić, Marko Jagodič, Robert Blinc, Janez Holc, Marija Kosec, Zvonko Trontelj, "Low temperature magnetic behaviour of PZT-PFW bulk multiferroic ceramics", *Journal of Physics: Conference Series*, **303**, 012065, (2011); doi: [10.1088/1742-6596/303/1/012065](https://doi.org/10.1088/1742-6596/303/1/012065)
- Dušan Milivojević, Branka Babić-Stojić, Vukoman Jokanović, Zvonko Jagličić, Darko Makovec, "Magnetic properties of Mn-oxide nanoparticles dispersed in an amorphous SiO₂ matrix", *Journal of Magnetism and Magnetic Materials*, **323**(6): 805-812, (2011); doi: [10.1016/j.jmmm.2010.11.002](https://doi.org/10.1016/j.jmmm.2010.11.002)
- Jelena Rogan, Dejan Poleti, Ljiljana Karanović, Zvonko Jagličić, "Synthesis, magnetic, thermal and structural properties of Co(II), Ni(II) and Cu(II) complexes containing isophthalato ligands", *Journal of Molecular Structure*, **985**(2-3): 371-379, (2011); doi: [10.1016/j.molstruc.2010.11.024](https://doi.org/10.1016/j.molstruc.2010.11.024)
- Zorica Marinković Stanojević, Zorica Branković, Zvonko Jagličić, Marko Jagodič, L. Mančić, Slavko Bernik, Aleksander Rečnik, Goran Branković, "Structural and magnetic properties of nanocrystalline bismuth manganite obtained by mechanochemical synthesis", *Journal of Nanoparticle Research*, **13**(8): 3431-3439, (2011); doi: [10.1007/s11051-011-0265-7](https://doi.org/10.1007/s11051-011-0265-7)
- Idalia Bilecka, Li Luo, Igor Djerdj, Marta D. Rossell, Marko Jagodič, Zvonko Jagličić, Yuji Masubuchi, Shinichi Kikkawa, Markus Niederberger, "Microwave-assisted nonaqueous sol-gel chemistry for highly concentrated ZnO-based magnetic semiconductor nanocrystals", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **115**(5): 1484-1495, (2011); doi: [10.1021/jp108050w](https://doi.org/10.1021/jp108050w)
- Simon Jazbec, Zvonko Jagličić, Stanislav Vrtnik, Magdalena Wencka, Michael Feuerbacher, Marc Heggen, S. Roitsch, Janez Dolinšek, "Geometric origin of magnetic frustration in the $\mu - \text{Al}_4\text{Mn}$ giant-unit-cell complex intermetallic", *Journal of Physics: Condensed Matter*, **23**(4), 045702, (2011); doi: [10.1088/0953-8984/23/4/045702](https://doi.org/10.1088/0953-8984/23/4/045702)
- Mihael Drofenik, Irena Ban, Darko Makovec, Andrej Žnidaršič, Zvonko Jagličić, Darko Hanžel, Darja Lisjak, "The hydrothermal synthesis of super-paramagnetic barium hexaferrite particles", *Materials Chemistry and Physics*, **127**(3): 415-419, (2011); doi: [10.1016/j.matchemphys.2011.02.037](https://doi.org/10.1016/j.matchemphys.2011.02.037)
- Andrej Zorko, Peter Jeglič, Anton Potočnik, Denis Arčon, A. Balčytis, Zvonko Jagličić, X. Liu, Andrei L. Tchougréeff, Richard Dronskowski, "Unconventional magnetism in a nitrogen-containing analog of cupric oxide", *Physical Review Letters*, **107**(4), 047208, (2011); doi: [10.1103/PhysRevLett.107.047208](https://doi.org/10.1103/PhysRevLett.107.047208)
- Zvonko Jagličić, Stanislav Vrtnik, Michael Feuerbacher, Janez Dolinšek, "Magnetic properties of FeAl₂ and Fe₂Al₅", *Physical Review B, Condensed Matter and Materials Physics*, **83**(22), 224427, (2011); doi: [10.1103/PhysRevB.83.224427](https://doi.org/10.1103/PhysRevB.83.224427)
- Matej Bobnar, Stanislav Vrtnik, Zvonko Jagličić, Magdalena Wencka, Can Cui, An Pang Tsai, Janez Dolinšek, "Electrical, magnetic, and thermal properties of the single-grain Ag₄₂In₄₂Yb₁₆ icosahedral quasicrystal", *Physical Review B, Condensed Matter and Materials Physics*, **84**(13), 134205, (2011); doi: [10.1103/PhysRevB.84.134205](https://doi.org/10.1103/PhysRevB.84.134205)
- Shiro Kashimoto, Andraž Kocjan, Zvonko Jagličić, Simon Jazbec, H. Iga, T. Ishimasa, Janez Dolinšek, "Magnetic properties of σ - and hexagonal-Mn₇₆Si₁₈Cr₆ approximant phases of a dodecagonal quasicrystal", *Physical Review B, Condensed Matter and Materials Physics*, **84**(22), 224201, (2011); doi: [10.1103/PhysRevB.84.224201](https://doi.org/10.1103/PhysRevB.84.224201)
- Elham Safaei, Iraj Saberikia, Andrzej Wojtczak (scribe), Zvonko Jagličić, Anna Kozakiewicz, "Synthesis and characterization of two binuclear iron(III) complexes of aminoethanol derivatives of aminophenol as models for non-heme iron enzymes active sites", *Polyhedron*, **30**(6): 1143-1148, (2011); doi: [10.1016/j.poly.2011.01.019](https://doi.org/10.1016/j.poly.2011.01.019)
- Elham Safaei, Hamid Sheykhi, Andrzej Wojtczak (scribe), Zvonko Jagličić, Anna Kozakiewicz, "Synthesis and characterization of an iron(III) complex of glycine derivative of bis(phenol)amine ligand in relevance to catechol dioxygenase active site", *Polyhedron*, **30**(7): 1219-1224, (2011); doi: [10.1016/j.poly.2011.01.036](https://doi.org/10.1016/j.poly.2011.01.036)
- Magdalena Wencka, Simon Jazbec, Zvonko Jagličić, Stanislav Vrtnik, Michael Feuerbacher, Marc Heggen, S. Roitsch, Janez Dolinšek, "Electrical resistivity of the $\mu - \text{Al}_4\text{Mn}$ giant-unit-cell complex metallic alloy", *Philosophical Magazine*, **91**(19/21): 2756-2764, (2011); doi: [10.1080/14786435.2010.512578](https://doi.org/10.1080/14786435.2010.512578)
- Dušan Milivojević, Branka Babić-Stojić, Vukoman Jokanović, Zvonko Jagličić, Darko Makovec, "Magnetic properties of Mn-doped amorphous SiO₂ matrix", *Acta Physica Polonica A*, **120**(2): 316-321, (2011); doi: [10.12693/APhysPolA.120.316](https://doi.org/10.12693/APhysPolA.120.316)

2010

- Przemyslaw Malinowski, Mariana Derzsi, Zoran Mazej, Zvonko Jagličić, Bartłomiej Gaweł, Wiesław Łasocha, Wojciech Grochala, "Ag^{II}SO₄: A genuine sulfate of divalent silver with anomalously strong one-dimensional antiferromagnetic interactions", *Angewandte Chemie: International Edition*, **49**(9): 1683-1686, (2010); doi: [10.1002/anie.200906863](https://doi.org/10.1002/anie.200906863)
- Dominik Kurzydłowski, Mariana Derzsi, Armand Budzianowski, Zvonko Jagličić, Wiktor Koźmiński, Zoran Mazej, Wojciech Grochala, "Polymorphism of fluoroargentates(II): Facile collapse of a layered network of $\alpha - \text{K}_2\text{AgF}_4$ due to the insufficient size of the potassium cation", *European Journal of Inorganic Chemistry*, **2010**(19): 2919-2925, (2010); doi: [10.1002/ejic.201000124](https://doi.org/10.1002/ejic.201000124)
- Jovica Ivkov, Denis Stanić, Zvonko Jagličić, Janez Dolinšek, Marc Heggen, Michael Feuerbacher, "Hall effect of the triclinic Al₇₃Mn₂₇ and T - Al₇₃Mn_{27-x}Pd_x (0 ≤ x ≤ 6) complex metallic alloys", *Croatica Chemica Acta*, **83**(1): 11-14, (2010); <https://hrcak.srce.hr/file/79716>
- Marko Jagodič, Zvonko Jagličić, Benjamin Grushko, Janez Dolinšek, "The influence of thermal on magnetic moments in i-Al-Pd-Mn quasicrystals", *Croatica Chemica Acta*, **83**(1): 39-42, (2010); <https://hrcak.srce.hr/clanak/79723>
- Brina Dojer, Andrej Pevec, Primož Šegedin, Zvonko Jagličić, Črtomir Stropnik, Matjaž Kristl, Mihael Drofenik, "Cobalt(II) coordination compounds with acetato and 2-aminopyridine ligands: Synthesis, characterisation, structures and magnetic properties of two polymorphic forms", *Inorganica Chimica Acta*, **63**(7): 1343-1347, (2010); doi: [10.1016/j.ica.2009.12.052](https://doi.org/10.1016/j.ica.2009.12.052)
- Zvonko Jagličić, Marko Jagodič, Benjamin Grushko, E. S. Zijlstra, Th. Weber, Walter Steurer, Janez Dolinšek, "The effect of thermal treatment on the magnetic state and cluster-related disorder of icosahedral Al-Pd-Mn quasicrystals", *Intermetallics*, **18**(4): 623-632, (2010); doi: [10.1016/j.intermet.2009.10.017](https://doi.org/10.1016/j.intermet.2009.10.017)
- Dragana Marković, Vladan Kusigerski, Marin Tadić, Jovan Blanuša, Zvonko Jagličić, Nikola Cvjetičanin, Vojislav Spasojević, "The influence of the heat treatment on the structural and magnetic properties of nanoparticle La_{0.7}Ca_{0.3}MnO₃ prepared by glycine-nitrate method", *Journal of Alloys and Compounds*, **494**(1/2): 52-57, (2010); doi: [10.1016/j.jallcom.2010.01.062](https://doi.org/10.1016/j.jallcom.2010.01.062)
- Magdalena Wencka, Marko Jagodič, Anton Gradišek, Andraž Kocjan, Zvonko Jagličić, Paul J. McGuinness, Tomaž Apih, Y. Yokoyama, Janez Dolinšek, "Physical properties of Zr₅₀Cu_{40-x}Al₁₀Pd_x bulk glassy alloys", *Journal of Alloys and Compounds*, **504**(1): 16-21, (2010); doi: [10.1016/j.jallcom.2010.01.062](https://doi.org/10.1016/j.jallcom.2010.01.062)

- Robert Blinc, Pavel Cevc, Anton Potočnik, Boris Žemva, Evgeny A. Goreschnik, Darko Hanžel, Alan Gregorovič, Zvonko Trontelj, Zvonko Jagličič, Valentin V. Laguta, Mara Perović, Naresh S. Dalal, James Floyd Scott, "Magnetic properties of multiferroic $K_3Cr_2Fe_3F_{15}$ ", *Journal of Applied Physics*, **107**(4), 043511, (2010); doi: [10.1063/1.3309205](https://doi.org/10.1063/1.3309205)
- Matjaž Kristl, Brina Dojer, Marta Počkaj, Amalija Golobič, Zvonko Jagličič, Mihael Drofenik, "Hydroxylammonium fluorometalates: synthesis and characterisation of a new fluorocuprate and fluorocobaltate", *Journal of Fluorine Chemistry*, **131**(9): 907-914, (2010); doi: [10.1016/j.jfluchem.2010.06.004](https://doi.org/10.1016/j.jfluchem.2010.06.004)
- Zorica Branković, Katarina Đuriš, Aleksandar Radojković, Slavko Bernik, Zvonko Jagličič, Marko Jagodič, Katarina Vojisavljević, Goran Branković, "Magnetic properties of doped $LaMnO_3$ ceramics obtained by a polymerizable complex method", *Journal of Sol-gel Science and Technology*, **55**(3): 311-6, (2010); doi: [10.1007/s10971-010-2251-4](https://doi.org/10.1007/s10971-010-2251-4)
- Mihael Drofenik, Irena Ban, Gregor Ferik, Darko Makovec, Andrej Žnidaršič, Zvonko Jagličič, Darja Lisjak, "The concept of a low-temperature synthesis for superparamagnetic $BaFe_{12}O_{19}$ particles", *Journal of the American Ceramic Society*, **93**(6): 1602-1607, (2010); doi: [10.1111/j.1551-2916.2010.03620.x](https://doi.org/10.1111/j.1551-2916.2010.03620.x)
- Brigita Rožič, Marko Jagodič, Sašo Gyergyek, Gojmir Lahajnar, Vlad Popa-Nita, Zvonko Jagličič, Mihael Drofenik, Zdravko Kutnjak, Samo Kralj, "Phase ordering in mixtures of liquid crystals and nanoparticles", In: *Rzoska S., Drozd-Rzoska A., Mazur V. (eds) Metastable Systems Under Pressure. NATO Science for Peace and Security Series A: Chemistry and Biology. Springer, Dordrecht, pp. 125-139*, (2010); https://link.springer.com/chapter/10.1007/978-90-481-3408-3_9
- Petar Popčević, Ana Smontara, Jovica Ivkov, Magdalena Wencka, Matej Komelj, Peter Jeglič, Stanislav Vrtnik, Matej Bobnar, Zvonko Jagličič, Birgitta Bauer, Peter Gille, H. Borrmann, Ulrich Burkhardt, Yuri Grin, Janez Dolinšek, "Anisotropic physical properties of the $Al_{13}Fe_4$ complex intermetallic and its ternary derivative $Al_{13}(Fe, Ni)_4$ ", *Physical Review B, Condensed Matter and Materials Physics*, **81**(18), 184203, (2010); doi: [10.1103/PhysRevB.81.184203](https://doi.org/10.1103/PhysRevB.81.184203)
- Marc Heggen, Michael Feuerbacher, Jovica Ivkov, Petar Popčević, Ivo Batistič, Ana Smontara, Marko Jagodič, Zvonko Jagličič, Jozef Janovec, Magdalena Wencka, Janez Dolinšek, "Anisotropic physical properties of the Taylor-phase $T - Al_{72.5}Mn_{21.5}Fe_{6.0}$ complex intermetallic", *Physical Review B, Condensed Matter and Materials Physics*, **81**(18), 184204, (2010); doi: [10.1103/PhysRevB.81.184204](https://doi.org/10.1103/PhysRevB.81.184204)
- Anton Potočnik, Andrej Zorko, Denis Arčon, Evgeny A. Goreschnik, Boris Žemva, Robert Blinc, Pavel Cevc, Zvonko Trontelj, Zvonko Jagličič, James Floyd Scott, "Muon spin relaxation in some multiferroic fluorides", *Physical Review B, Condensed Matter and Materials Physics*, **81**(21), 214420, (2010); doi: [10.1103/PhysRevB.81.214420](https://doi.org/10.1103/PhysRevB.81.214420)
- Matej Pregelj, Andrej Zorko, Oksana Zaharko, Zdravko Kutnjak, Marko Jagodič, Zvonko Jagličič, Helmuth Berger, Mariano de Souza, Christian Balz, Michael Lang, Denis Arčon, "Magnetic phase diagram of the multiferroic $FeTe_2O_5Br$ ", *Physical Review B, Condensed Matter and Materials Physics*, **82**(14), 144438, (2010); doi: [10.1103/PhysRevB.82.144438](https://doi.org/10.1103/PhysRevB.82.144438)
- Marijana Đaković, Zvonko Jagličič, Bojan Kozlevčar, Zora Popović, "Association of copper(II) isonicotinamide moieties via different anionic bridging ligands: Two paths of ferromagnetic interaction in the azide coordination compound", *Polyhedron*, **29**(8): 1910-1919, (2010); doi: [10.1016/j.poly.2010.02.040](https://doi.org/10.1016/j.poly.2010.02.040)
- Martin Vavra, Marek Antoňák, Zvonko Jagličič, Marián Mihalik, Matúš Mihalik, Kornel Csach, Mária Zentková, "Magnetic properties of $(Cu_xMn_{1-x})_3[Cr(CN)_6]_2 \cdot zH_2O$ complexes", *Acta Physica Polonica A*, **118**(5): 998-999, (2010); <http://przyrbwn.icm.edu.pl/APP/PDF/118/a118z5p116.pdf>
- Zvonko Jagličič, Maria Zentková, Marián Mihalik, Mihael Drofenik, Matjaž Kristl, Brina Dojer, Marta Počkaj, Amalija Golobič, Marko Jagodič, Zdeněk Arnold, "Effect of pressure on magnetic properties of $(NH_3OH)_2CoF_4$ fluoro-metal complex", *Acta Physica Polonica A*, **118**(5): 1074-1075, (2010); doi: [10.12693/APhysPolA.118.1074](https://doi.org/10.12693/APhysPolA.118.1074)
- Adrijan Levstik, Cene Filipič, Vid Bobnar, Silvo Drnovšek, Janez Holc, Zvonko Trontelj, Zvonko Jagličič, "Ordering of polarons in $Pr_{0.5}Ca_{0.5}MnO_3$ ", *Solid State Communications*, **150**(27-28): 1249-1252, (2010); doi: [10.1016/j.ssc.2010.03.034](https://doi.org/10.1016/j.ssc.2010.03.034)
- Janez Dolinšek, Magdalena Wencka, Marko Jagodič, Zvonko Jagličič, Saskia Gottlieb-Schönmeyer, Franz Ritter, Wolf Assmus, "Slow-charge-carrier electronic transport in the heavy-fermion $YbCu_{4.25}$ complex intermetallic", *Solid State Communications*, **150**(35/36): 1629-1632, (2010); doi: [10.1016/j.ssc.2010.06.038](https://doi.org/10.1016/j.ssc.2010.06.038)

2009

- Igor Djerdj, Minhua Cao, Xavier Rocqufelte, Radovan Černý, Zvonko Jagličič, Denis Arčon, Anton Potočnik, Fabia Gozzo, Markus Niederberger, "Structural characterization of a nanocrystalline inorganic-organic hybrid with fiberlike morphology and one-dimensional antiferromagnetic properties", *Chemistry of Materials*, **21**(14): 3356-3369, (2009); doi: [10.1021/cm901345h](https://doi.org/10.1021/cm901345h)
- Zoran Mazej, Evgeny Goreschnik, Zvonko Jagličič, Bartłomiej Gaweł, Wiesław Łasocha, Dorota Grzybowska, Tomasz Jaroń, Dominik Kurzydłowski, Przemysław Malinowski, Wiktor Koźminski, Jadwiga Szydłowska, Piotr Leszczyński, Wojciech Grochala, " $KAgF_3$, K_2AgF_4 and $K_3Ag_2F_7$: important steps towards a layered antiferromagnetic fluoroargentate(II)", *CrystEngComm*, **11**(8): 1702-1710, (2009); doi: [10.1039/b902161b](https://doi.org/10.1039/b902161b)
- Miodrag Mitrić, Jovan Blanuša, Tanja Barudžija, Zvonko Jagličič, Vladan Kusigerski, Vojislav Spasojević, "Magnetic properties of trivalent Sm ions in $Sm_xY_{2-x}O_3$ ", *Journal of Alloys and Compounds*, **485**(1-2): 473-477, (2009); doi: [10.1016/j.jallcom.2009.05.142](https://doi.org/10.1016/j.jallcom.2009.05.142)
- Robert Blinc, Gašper Tavčar, Boris Žemva, Evgeny A. Goreschnik, Darko Hanžel, Pavel Cevc, Anton Potočnik, Valentin V. Laguta, Zvonko Trontelj, Zvonko Jagličič, James Floyd Scott, "Electron paramagnetic resonance and Mössbauer study of antiferromagnetic $K_3Cu_3Fe_2F_{15}$ ", *Journal of Applied Physics*, **106**(2), 023924, (2009); doi: [10.1063/1.3184347](https://doi.org/10.1063/1.3184347)
- Janez Dolinšek, Michael Feuerbacher, Marko Jagodič, Zvonko Jagličič, Marc Heggen, Knut Urban, "A thermal memory cell", *Journal of Applied Physics*, **106**(4), 043917, (2009); doi: [10.1063/1.3207791](https://doi.org/10.1063/1.3207791)
- Adrijan Levstik, Cene Filipič, Vid Bobnar, Evgeny A. Goreschnik, Boris Žemva, Zvonko Trontelj, Zvonko Jagličič, "Polarons in magnetoelectric $K_3F_3Cr^{III}F_{15}$ ", *Journal of Applied Physics*, **106**(7), 073720, (2009); doi: [10.1063/1.3240340](https://doi.org/10.1063/1.3240340)
- Polona Umek, Alexandre Gloter, Matej Pregelj, Robert Dominko, Marko Jagodič, Zvonko Jagličič, Anna Žimina, Mery Brzhezinskaya, Anton Potočnik, Cene Filipič, Adrijan Levstik, Denis Arčon, "Synthesis of 3D hierarchical self-assembled microstructures formed from $\alpha - MnO_2$ nanotubes

and their conducting and magnetic properties", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **113**(33): 14798-14803, (2009); doi: [10.1021/jp9050319](https://doi.org/10.1021/jp9050319)

● Dušan Branković, Vukoman Jokanović, Branka Babić-Stojić, Zvonko Jagličić, Darja Lisjak, Dušan Kojić, "Interference effect between superparamagnetic and spin glass correlated moments in a system of dispersed Co_3O_4 nanocrystallites", *Journal of Physics: Condensed Matter*, **21**(9), 095303, (2009); doi: [10.1088/0953-8984/21/9/095303](https://doi.org/10.1088/0953-8984/21/9/095303)

● Marko Jagodič, Zvonko Jagličić, Andreja Jelen, Jin Bae Lee, Young-Min Kim, Hae Jin Kim, Janez Dolinšek, "Surface-spin magnetism of antiferromagnetic NiO in nanoparticle and bulk morphology", *Journal of Physics: Condensed Matter*, **21**(21), 215302, (2009); doi: [10.1088/0953-8984/21/21/215302](https://doi.org/10.1088/0953-8984/21/21/215302)

● Minhua Cao, Igor Djerdj, Zvonko Jagličić, Markus Antonietti, Markus Niederberger, "Layered hybrid organic-inorganic nanobelts exhibiting a field-induced magnetic transition", *PCCP: Physical Chemistry Chemical Physics*, **11**: 6166-6172, (2009); doi: [10.1039/b820913h](https://doi.org/10.1039/b820913h)

● Matej Pregelj, Oksana Zaharko, Andrej Zorko, Zdravko Kutnjak, Peter Jeglič, Paige J. Brown, Marko Jagodič, Zvonko Jagličić, Helmuth Berger, Denis Arčon, "Spin amplitude modulation driven magnetoelectric coupling in the new multiferroic $\text{FeTe}_2\text{O}_5\text{Br}$ ", *Physical Review Letters*, **103**(14), 147202, (2009); doi: [10.1103/PhysRevLett.103.147202](https://doi.org/10.1103/PhysRevLett.103.147202)

● Adrijan Levstik, Cene Filipič, Vid Bobnar, Anton Potočnik, Denis Arčon, Silvo Drnovšek, Janez Holc, Zvonko Jagličić, "Ordering of polarons in the charge-disordered phase of $\text{Pr}_{0.7}\text{Ca}_{0.3}\text{MnO}_3$ ", *Physical Review B, Condensed Matter and Materials Physics*, **79**(15), 153110, (2009); doi: [10.1103/PhysRevB.79.153110](https://doi.org/10.1103/PhysRevB.79.153110)

● Janez Dolinšek, Matej Komelj, Peter Jeglič, Stanislav Vrtnik, Denis Stanič, P. Popčević, Jovica Ivkov, Ana Smontara, Zvonko Jagličić, Peter Gille, Yuri Grin, "Anisotropic magnetic and transport properties of orthorhombic $\text{Al}_{13}\text{Co}_4$ ", *Physical Review B, Condensed Matter and Materials Physics*, **79**(18), 184201, (2009); doi: [10.1103/PhysRevB.79.184201](https://doi.org/10.1103/PhysRevB.79.184201)

● Bojan Kozlevčar, Elizabeta Mate, Zvonko Jagličić, Lea Glažar, Amalija Golobič, Peter Strauch, Jan Moncol, Nives Kitanovski, Primož Šegedin, "A small methanoato ligand in the structural differentiation of copper(II) complexes", *Polyhedron*, **28**(13): 2759-2765, (2009); doi: [10.1016/j.poly.2009.05.066](https://doi.org/10.1016/j.poly.2009.05.066)

● Denis Stanič, Jovica Ivkov, Ana Smontara, Zvonko Jagličić, Janez Dolinšek, Marc Heggen, Michael Feuerbacher, "Hall effect in Taylor-phase and decagonal $\text{Al}_3(\text{Mn}, \text{Fe})$ complex intermetallics", *Zeitschrift Für Kristallographie*, **224**(1/2): 49-52, (2009); doi: [10.1524/zkri.2009.1053](https://doi.org/10.1524/zkri.2009.1053)

● Marko Jagodič, Zvonko Jagličić, Benjamin Grushko, Sergiy Balanetsky, Janez Dolinšek, "The influence of thermal annealing on structural order in the $\mu\text{-Al}_4\text{Mn}$ complex intermetallic", *Zeitschrift Für Kristallographie*, **224**(1-2): 42-44, (2009); doi: [10.1524/zkri.2009.1115](https://doi.org/10.1524/zkri.2009.1115)

● Goran Branković, Katarina Đuriš, Zvonko Jagličić, Marko Jagodič, Zorica Branković, "Magnetic properties of pure and Ca and Sr doped LaMnO_3 prepared by polymerisable complex method", *Advances in Applied Ceramics*, **108**(on electroceramics): 267-272, (2009); doi: [10.1179/174367609X414026](https://doi.org/10.1179/174367609X414026)

2008

● Brina Dojer, Matjaž Kristl, Zvonko Jagličić, Mihael Drogenik, Anton Meden, "Ammoniumbis(hydroxylammonium) pentafluorodioxidovanadate(IV): Synthesis and characterisation of a new fluorovanadate", *Acta Chimica Slovenica*, **55**(4): 834-840, (2008); <http://acta-arhiv.chem-soc.si/55/55-4-834.pdf>

● Primož Šegedin, Urška Dolničar, Mirzet Čuskić, Zvonko Jagličić, Amalija Golobič, Bojan Kozlevčar, "Halogenido analogues of structurally diverse complexes with 3-hydroxypyridine", *Acta Chimica Slovenica*, **55**(4): 992-998, (2008); <http://acta-arhiv.chem-soc.si/55/55-4-992.pdf>

● Ana Smontara, Igor Smiljanič, Ante Bilušić, Benjamin Grushko, Sergiy Balanetsky, Zvonko Jagličić, Stanislav Vrtnik, Janez Dolinšek, "Complex ϵ -phases in the Al-Pd-transition-metal systems: Towards a combination of an electrical conductor with a thermal insulator", *Journal of Alloys and Compounds*, **450**(1/2): 92-102, (2008); doi: [10.1016/j.jallcom.2006.11.097](https://doi.org/10.1016/j.jallcom.2006.11.097)

● Robert Blinc, Gašper Tavčar, Boris Žemva, Darko Hanžel, Pavel Cevc, Cene Filipič, Adrijan Levstik, Zvonko Jagličić, Zvonko Trontelj, Naresh S. Dalal, Vasanth Ramachandran, Saritha Nellutla, James Floyd Scott, "Weak ferromagnetism and ferroelectricity in $\text{K}_3\text{Fe}_5\text{F}_{15}$ ", *Journal of Applied Physics*, **103**(7), 074114, (2008); doi: [10.1063/1.2903525](https://doi.org/10.1063/1.2903525)

● Adrijan Levstik, Cene Filipič, Vid Bobnar, Janez Holc, Silvo Drnovšek, Zvonko Trontelj, Zvonko Jagličić, "0.3Pb($\text{Fe}_{1/2}\text{Nb}_{1/2}$) O_3 – 0.7Pb($\text{Mg}_{1/2}\text{W}_{1/2}$) O_3 : A magnetic and electric relaxor", *Journal of Applied Physics*, **104**(5), 054113, (2008); doi: [10.1063/1.2975346](https://doi.org/10.1063/1.2975346)

● Marko Jagodič, Sašo Gyergyek, Zvonko Jagličić, Darko Makovec, Zvonko Trontelj, "Detection of magnetic nanoparticle fusion by magnetic measurements", *Journal of Applied Physics*, **104**(7), 07419, (2008); doi: [10.1063/1.2996083](https://doi.org/10.1063/1.2996083)

● Igor Djerdj, Georg Garnweitner, Denis Arčon, Matej Pregelj, Zvonko Jagličić, Markus Niederberger, "Diluted magnetic semiconductors: Mn/Co-doped ZnO nanorods as a case study", *Journal of Materials Chemistry*, **18**(43): 5208-5217, (2008); doi: [10.1039/b808361d](https://doi.org/10.1039/b808361d)

● Polona Umek, Matej Pregelj, Alexandre Gloter, Pavel Cevc, Zvonko Jagličić, Miran Čeh, Urša Pirnat, Denis Arčon, "Coordination of intercalated Cu_{2+} sites in copper doped sodium titanate nanotubes and nanoribbons", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **112**(39): 15311-15319, (2008); doi: [10.1021/jp805005k](https://doi.org/10.1021/jp805005k)

● Igor Djerdj, Denis Arčon, Zvonko Jagličić, Markus Niederberger, "Nonaqueous synthesis of metal oxide nanoparticles: Short review and doped titanium dioxide as case study for the preparation of transition metal-doped oxide nanoparticles", *Journal of Solid State Chemistry*, **181**(7): 1571-1581, (2008); doi: [10.1016/j.jssc.2008.04.016](https://doi.org/10.1016/j.jssc.2008.04.016)

● Janez Dolinšek, Stanislav Vrtnik, Ana Smontara, Marko Jagodič, Zvonko Jagličić, Birgitta Bauer, P. Gille, "Anisotropic electrical, magnetic and thermal transport properties of the $\text{Al}_{80}\text{Cr}_{15}\text{Fe}_5$ decagonal approximant", *Philosophical Magazine*, **88**(13/15): 2145-2153, (2008); doi: [10.12693/APhysPolA.113.511](https://doi.org/10.12693/APhysPolA.113.511)

● Andrej Zorko, Samir El Shawish, Denis Arčon, Zvonko Jagličić, Alexandros Lappas, "Magnetic interactions in αNaMnO_2 : quantum spin-2 system on a spatially anisotropic two-dimensional triangular lattice", *Physical Review B, Condensed Matter and Materials Physics*, **77**(2), 024412, (2008); doi: [10.1103/PhysRevB.77.024412](https://doi.org/10.1103/PhysRevB.77.024412)

- Janez Dolinšek, Jernej Slanovec, Zvonko Jagličič, Marc Heggen, Sergiy Balanetskyy, Michael Feuerbacher, Knut Urban, "Broken ergodicity, memory effect, and rejuvenation in Taylor-phase and decagonal $\text{Al}_3(\text{Mn, Pd, Fe})$ complex intermetallics", *Physical Review B, Condensed Matter and Materials Physics*, **77**(6), 064430, (2008); doi: [10.1103/PhysRevB.77.064430](https://doi.org/10.1103/PhysRevB.77.064430)
- Ana Smontara, Igor Smiljanić, Jovica Ivkov, Denis Stanić, Osor S. Barišić, Zvonko Jagličič, P. Gille, Matej Komelj, Peter Jeglič, Matej Bobnar, Janez Dolinšek, "Anisotropic magnetic, electrical, and thermal transport properties of the Y-Al-Ni-Co decagonal approximant", *Physical Review B, Condensed Matter and Materials Physics*, **78**(10), 104204, (2008); doi: [10.1103/PhysRevB.77.064430](https://doi.org/10.1103/PhysRevB.77.064430)
- Boris-Marko Kukovec, Zora Popović, Bojan Kozlevčar, Zvonko Jagličič, "3D supramolecular architectures of copper(II) complexes with 6-methylpicolinic and 6-bromopicolinic acid: Synthesis, spectroscopic, thermal and magnetic properties", *Polyhedron*, **27**(18): 3631-3638, (2008); doi: [10.1016/j.poly.2008.09.011](https://doi.org/10.1016/j.poly.2008.09.011)
- Jernej Slanovec, Zvonko Jagličič, Marko Jagodič, Zvonko Trontelj, Marc Heggen, Michael Feuerbacher, Sergiy Balanetskyy, Janez Dolinšek, "Spin glass-like transition in orthorhombic T-phase Al-Pd(Fe)-Mn complex metallic alloys", *Acta Physica Polonica A*, **113**(1): 19-22, (2008); doi: [10.12693/APhysPolA.113.19](https://doi.org/10.12693/APhysPolA.113.19)
- Anton Zentko, Viktor Kavečanský, Marián Mihalik, S. Maťaš, Zuzana Mitrošová, Maria Zentková, Miroslav Maryško, Zvonko Jagličič, "Magnetic relaxation and memory effect in nickel-chromium cyanide nanoparticles", *Acta Physica Polonica A*, **113**(1): 511-514, (2008); doi: [10.12693/APhysPolA.113.511](https://doi.org/10.12693/APhysPolA.113.511)
- Mihael Drofenik, Matjaž Kristl, Darko Makovec, Zvonko Jagličič, Darko Hanžel, "Sonochemically assisted synthesis of zinc-doped maghemite", *Ultrasonics Sonochemistry*, **15**(5): 791-798, (2008); doi: [10.1016/j.ultsonch.2007.10.002](https://doi.org/10.1016/j.ultsonch.2007.10.002)
- Mihael Drofenik, Matjaž Kristl, Darko Makovec, Darko Makovec, Zvonko Jagličič, Darko Hanžel, "Preparation and study of zinc ferrite nanoparticles with a high magnetization", *Materials and Manufacturing Processes*, **23**(6): 603-606, (2008); doi: [10.1080/10426910802160577](https://doi.org/10.1080/10426910802160577)

2007

- Adrijan Levstik, Vid Bobnar, Cene Filipič, Janez Holc, Marija Kosec, Robert Blinc, Zvonko Trontelj, Zvonko Jagličič, "Magnetoelectric relaxor", *Applied Physics Letters*, **91**(1), 012905, (2007); doi: [10.1063/1.2754354](https://doi.org/10.1063/1.2754354)
- Robert Blinc, Marija Kosec, Janez Holc, Zvonko Trontelj, Zvonko Jagličič, Naresh S. Dalal, "Magnetoelectric effect in $\text{Pb}(\text{Fe}_{1/2}\text{Nb}_{1/2}\text{O}_3)$ ", *Ferroelectrics*, **349**: 16-20, (2007); doi: [10.1080/00150190701260553](https://doi.org/10.1080/00150190701260553)
- Janez Dolinšek, Tomaž Apih, Peter Jeglič, Igor Smiljanić, Ante Bilušić, Željko Bihar, Ana Smontara, Zvonko Jagličič, M. Heggen, Michael Feuerbacher, "Magnetic and transport properties of the giant-unit-cell $\text{Al}_{3.26}\text{Mg}_2\text{Al}_{3.26}\text{Mg}_2$ complex metallic alloy", *Intermetallics*, **15**: 1367-1376, (2007); doi: [10.1016/j.intermet.2007.04.010](https://doi.org/10.1016/j.intermet.2007.04.010)
- Ana Smontara, Igor Smiljanić, Ante Bilušić, Zvonko Jagličič, Martin Klanjšek, S. Roitsch, Janez Dolinšek, Michael Feuerbacher, "Electrical, magnetic, thermal and thermoelectric properties of the "Bergman phase" $\text{Mg}_{32}(\text{Al, Zn})_{49}$ complex metallic alloy", *Journal of Alloys and Compounds*, **430**: 29-38, (2007); doi: [10.1016/j.jallcom.2006.05.026](https://doi.org/10.1016/j.jallcom.2006.05.026)
- Marin Tadić, Dragana Marković, Vojislav Spasojević, Vladan Kusigerski, Maja Remškar, Janez Pirnat, Zvonko Jagličič, "Synthesis and magnetic properties of concentrated $\alpha\text{-Fe}_2\text{O}_3$ nanoparticles in a silica matrix", *Journal of Alloys and Compounds*, **441**(1-2): 291-296, (2007); doi: [10.1016/j.jallcom.2006.09.099](https://doi.org/10.1016/j.jallcom.2006.09.099)
- Igor Djerdj, Denis Arčon, Zvonko Jagličič, Markus Niederberger, "Nonaqueous synthesis of manganese oxide nanoparticles, structural characterization, and magnetic properties", *The Journal of Physical Chemistry C, Nanomaterials and Interfaces*, **111**: 3614-3623, (2007); doi: [10.1021/jp067302t](https://doi.org/10.1021/jp067302t)
- Andrej Zorko, Denis Arčon, Janez Dolinšek, Zvonko Jagličič, Andrej Jeromen, Hans van Tol, Louis Claude Brunel, Helmuth Berger, "Magnetism in the novel spin system $\text{Ni}_5(\text{TeO}_3)_4\text{Br}_2$ with-two-dimensional frustrated geometry", *Journal of Physics: Condensed Matter*, **19**(14), 145278, (2007); doi: [10.1088/0953-8984/19/14/145278](https://doi.org/10.1088/0953-8984/19/14/145278)
- Hae Jin Kim, Jin Bae Lee, Young-Min Kim, Myung-Hwa Jung, Zvonko Jagličič, Polona Umek, Janez Dolinšek, "Synthesis, structure and magnetic properties of $\beta\text{-MnO}_2$ nanorods", *Nanoscale Research Letters*, **2**(2): 81-86, (2007); doi: [10.1007/s11671-006-9034-4](https://doi.org/10.1007/s11671-006-9034-4)
- Janez Dolinšek, Stanislav Vrtnik, Martin Klanjšek, Zvonko Jagličič, Ana Smontara, Igor Smiljanić, Ante Bilušić, Y. Yokoyama, Akihisa Inoue, C. V. Landauro, "Intrinsic electrical, magnetic, and thermal properties of single-crystalline $\text{Al}_{64}\text{Cu}_{23}\text{Fe}_{13}$ icosahedral quasicrystal: experimental and modeling", *Physical Review B, Condensed Matter and Materials Physics*, **76**(5), 0542019, (2007); doi: [10.1103/PhysRevB.76.052404](https://doi.org/10.1103/PhysRevB.76.052404)
- Matej Pregelj, Andrej Zorko, Helmuth Berger, Hans van Tol, Louis Claude Brunel, Andrzej Ozarowski, Saritha Nellutla, Zvonko Jagličič, Oksana Zaharko, Philip Tregenna-Piggott, Denis Arčon, "Magnetic structure of the $S=1$ $\text{Ni}_5(\text{TeO}_3)_4\text{Br}_2$ layered system system governed by magnetic anisotropy", *Physical Review B, Condensed Matter and Materials Physics*, **76**(14), 144408, (2007); doi: [10.1103/PhysRevB.76.144408](https://doi.org/10.1103/PhysRevB.76.144408)
- Bojan Kozlevčar, Lea Glažar, Gordana Pirc, Zvonko Jagličič, Amalija Golobič, Primož Šegedin, "Diverse coordination of two ligands in ferromagnetic $[\text{Cu}(\mu\text{-HCO}_2)_2(3\text{-pyOH})]_n$ and $[\text{Cu}_2(\mu\text{-HCO}_2)_2(\mu\text{-}3\text{-pyOH})_2(3\text{-pyOH})_2(\text{HCO}_2)_2]_n$ ", *Polyhedron*, **26**(1): 11-16, (2007); doi: [10.1016/j.poly.2006.07.025](https://doi.org/10.1016/j.poly.2006.07.025)
- Bojan Kozlevčar, Marjeta Radišek, Zvonko Jagličič, Franci Merzel, Lea Glažar, Amalija Golobič, Primož Šegedin, "Strong antiferromagnetism in the dinuclear 2-pyridone complex with N-C-O bridges: A paddle-wheel analogue of the dinuclear tetracarboxylates", *Polyhedron*, **26**(18): 5414-5419, (2007); doi: [10.1016/j.poly.2007.08.019](https://doi.org/10.1016/j.poly.2007.08.019)

2006

- Zvonko Jagličič, Primož Šegedin, Jernej Zlatič, Andrej Zorko, Janez Pirnat, Zvonko Trontelj, "Magnetic interactions in a new copper(II) carboxylate complex", *Journal of Magnetism and Magnetic Materials*, **310**(2): 1444-1446, (2006); doi: [10.1016/j.jmmm.2006.10.460](https://doi.org/10.1016/j.jmmm.2006.10.460)
- Željko Bihar, Ante Bilušić, J. Lukatela, Ana Smontara, Peter Jeglič, Paul J. McGuinness, Janez Dolinšek, Zvonko Jagličič, Jozef Janovec, Valérie Demange, Jean-Marie Dubois, "Magnetic, electrical and thermal transport properties of Al-Cr-Fe approximant phases", *Journal of Alloys and Compounds*, **407**: 65-73, (2006); doi: [10.1016/j.jallcom.2005.06.055](https://doi.org/10.1016/j.jallcom.2005.06.055)
- Matej Pregelj, Polona Umek, Boštjan Drolc, Boštjan Jančar, Zvonko Jagličič, Robert Dominko, Denis Arčon, "Synthesis, structure, and magnetic properties of iron-oxide nanowires", *Journal of Materials Research*, **21**(11): 2955-2962, (2006); doi: [10.1557/jmr.2006.0365](https://doi.org/10.1557/jmr.2006.0365)

- Andrej Zorko, Denis Arčon, Alexandros Lappas, Zvonko Jagličič, "Magnetic versus non-magnetic doping effects in the Haldane chain compounds $\text{PbNi}_2\text{V}_2\text{O}_8$ ", *New Journal of Physics*, **8**, 60, (2006); doi: [10.1088/1367-2630/8/4/060](https://doi.org/10.1088/1367-2630/8/4/060)
- Janez Dolinšek, Zvonko Jagličič, Ana Smontara, "Physical properties of the complex metallic alloy phases in the Al-Pd-Mn system", *Philosophical Magazine*, **86**(3/5): 671-678, (2006); doi: [10.1080/14786430500306519](https://doi.org/10.1080/14786430500306519)
- Zvonko Jagličič, Janez Dolinšek, Ante Bilušić, Ana Smontara, Zvonko Trontelj, Helmuth Berger, "Searching for magnetic frustration-like properties in tetrahedral spin systems $\text{Cu}_2\text{Te}_2\text{O}_5(\text{Br}_{1-x}\text{Cl}_x)_2$ ", *Physica B: Condensed Matter*, **382**: 209-212, (2006); doi: [10.1016/j.physb.2006.02.021](https://doi.org/10.1016/j.physb.2006.02.021)
- Zvonko Jagličič, Samir El Shawish, Andrej Jeromen, Ante Bilušić, Ana Smontara, Zvonko Trontelj, Janez Bonča, Janez Dolinšek, Helmuth Berger, "Magnetic ordering and ergodicity of the spin system in the $\text{Cu}_2\text{Te}_2\text{O}_5\text{C}_2$ family", *Physical Review B, Condensed Matter and Materials Physics*, **73**, 214408, (2006); doi: [10.1103/PhysRevB.73.214408](https://doi.org/10.1103/PhysRevB.73.214408)
- Andrej Zorko, Denis Arčon, Alexandros Lappas, Zvonko Jagličič, "Magnetic interaction between impurity and impurity-liberated spins in the doped Haldane chain compounds $\text{PbNi}_{2-x}\text{A}_x\text{V}_2\text{O}_8$ (A=Mg, Co)", *Physical Review B, Condensed Matter and Materials Physics*, **73**(10), 104436, (2006); doi: [10.1103/PhysRevB.73.104436](https://doi.org/10.1103/PhysRevB.73.104436)
- Denis Arčon, Zvonko Jagličič, Andrej Zorko, Andrei V. Rode, Andrew G. Christy, Nathan R. Madsen, Eugene G. Gamaly, Barry Luther-Davies, "Origin of magnetic moments in carbon nanofoam", *Physical Review B, Condensed Matter and Materials Physics*, **74**(1), 014438, (2006); doi: [10.1103/PhysRevB.74.014438](https://doi.org/10.1103/PhysRevB.74.014438)

2005

- Ana Smontara, Ante Bilušić, Zvonko Jagličič, Andrej Zorko, Janez Dolinšek, Helmuth Berger, "Anomalous thermal conductivity of single crystal $\text{Cu}_2\text{Te}_2\text{O}_5\text{Cl}_2$ ", *Applied Magnetic Resonance*, **29**(2), 261, (2005); doi: [10.1007/BF03167013](https://doi.org/10.1007/BF03167013)
- Aleksandar Kremenović, Bratislav Antić, Vojislav Spasojević, Milica Vučinić-Vasić, Zvonko Jagličič, Janez Pirnat, Zvonko Trontelj, "X-ray powder diffraction line broadening analysis and magnetism of interacting ferrite nanoparticles obtained from acetylacetonato complexes", *Journal of Physics: Condensed Matter*, **17**(27): 4285-4299, (2005); doi: [10.1088/0953-8984/17/27/005](https://doi.org/10.1088/0953-8984/17/27/005)
- Esther Belin-Ferré, Martin Klanjšek, Zvonko Jagličič, Janez Dolinšek, Jean-Marie Dubois, "Experimental study of the electronic density of states in aluminium-based intermetallics", *Journal of Physics: Condensed Matter*, **17**(43): 6911-6924, (2005); doi: [10.1088/0953-8984/17/43/010](https://doi.org/10.1088/0953-8984/17/43/010)
- Polona Umek, Andrej Zorko, Pavel Cevc, Miha Škarabot, Zvonko Jagličič, Jin Won Seo, László Forró, Hans van Tool, Louis Claude Brunel, Denis Arčon, "The impact of ageing on the magnetic properties of $\text{Cu}(\text{OH})_2$ nanoribbons", *Nanotechnology*, **16**(9): 1623-1629, (2005); doi: [10.1088/0957-4484/16/9/037](https://doi.org/10.1088/0957-4484/16/9/037)
- Janez Dolinšek, Peter Jeglič, Paul J. McGuinness, Zvonko Jagličič, Ante Bilušić, Željko Bihar, Ana Smontara, Carlos V. Landauro, Michael Feuerbacher, Benjamin Grushko, Knut Urban, "Magnetic, electrical, thermal transport, and thermoelectric properties ξ' and Ψ complex metallic alloy phases in the Al-Pd-Mn system", *Physical Review B, Condensed Matter and Materials Physics*, **72**(6), 064208, (2005); doi: [10.1103/PhysRevB.72.064208](https://doi.org/10.1103/PhysRevB.72.064208)
- I. Golosovsky, Denis Arčon, Zvonko Jagličič, Pavel Cevc, V. P. Sakhnenko, D. A. Kurdyukov, Yu. A. Kumzerov, "ESR studies of MnO embedded into silica nanoporous matrices with different topology", *Physical Review B, Condensed Matter and Materials Physics*, **72**(14), 144410, (2005); doi: [10.1103/PhysRevB.72.144410](https://doi.org/10.1103/PhysRevB.72.144410)
- Jovan Blanuša, Miodrag Mitrić, Vladan Kusigerski, Vojislav Spasojević, Zvonko Jagličič, Janez Pirnat, Zvonko Trontelj, "Magnetic properties of $\text{Er}_x\text{Y}_{1-x}\text{F}_3$ solid solutions", *Solid State Communications*, **133**: 157-161, (2005); doi: [10.1016/j.ssc.2004.10.023](https://doi.org/10.1016/j.ssc.2004.10.023)

2004

- Janez Dolinšek, Peter Jeglič, Paul J. McGuinness, Zvonko Jagličič, Ana Smontara, E. Tabachnikova, V. Bengus, "Magnetic and electrical investigations of $\text{Fe}_{85-x}\text{Co}_x\text{B}_{15}$ metallic glasses", *Applied Physics A, Materials Science & Processing*, **79**(8): 1947-1953, (2004); doi: [10.1007/s00339-003-2098-4](https://doi.org/10.1007/s00339-003-2098-4)
- Zvonko Jagličič, Jure Prizmič, Janez Dolinšek, Zvonko Trontelj, "Measurements of magnetic relaxation processes in quasicrystals", *Journal of Electrical Engineering*, **55**(10/S): 3-6, (2004); http://iris.elf.stuba.sk/JEEEC/data/pdf/10s_104-02.pdf
- Zvonko Jagličič, Janez Dolinšek, Zvonko Trontelj, "Magnetic properties of Tb-Mg-Zn and Tb-Mg-Cd quasicrystals in comparison with canonical spin glasses", *Journal of Magnetism and Magnetic Materials*, **272-276**(1): 597-598, (2004); doi: [10.1016/j.jmmm.2003.11.237](https://doi.org/10.1016/j.jmmm.2003.11.237)
- Dragan Mihailović, Zvonko Jagličič, Robert Dominko, Aleš Omerzu, Aleš Mrzel, "Giant paramagnetism in Li-doped Mo-S nanostructures", *The Journal of Physics and Chemistry of Solids*, **65**(4): 707-711, (2004); doi: [10.1016/j.jpcs.2003.11.004](https://doi.org/10.1016/j.jpcs.2003.11.004)
- Denis Arčon, Andrej Zorko, Pavel Cevc, Robert Dominko, Marjan Bele, Janko Jamnik, Zvonko Jagličič, I. Golosovsky, "Weak ferromagnetism of LiMnPO_4 ", *The Journal of Physics and Chemistry of Solids*, **65**(11): 1773-1777, (2004); doi: [10.1016/j.jpcs.2004.06.002](https://doi.org/10.1016/j.jpcs.2004.06.002)
- Denis Arčon, Andrej Zorko, Robert Dominko, Zvonko Jagličič, "A comparative study of magnetic properties of LiFePO_4 and LiMnPO_4 ", *Journal of Physics: Condensed Matter*, **16**(30): 5531-5548, (2004); doi: [10.1088/0953-8984/16/30/014](https://doi.org/10.1088/0953-8984/16/30/014)
- Zvonko Jagličič, Janez Dolinšek, Zvonko Trontelj, José M. Martínez-Agudo, "Magnetic properties of Cd-Mg-Tb quasicrystal", *Materials Science & Engineering A, Structural Materials: Properties, Microstructure and Processing*, **375-377**: 998-1001, (2004); doi: [10.1016/j.msea.2003.10.067](https://doi.org/10.1016/j.msea.2003.10.067)

2003

- Janez Dolinšek, Zvonko Jagličič, T. J. Sato, T. J. Guo, A. P. Tsai, "Spin freezing in icosahedral Tb-Mg-Zn and Tb-Mg-Cd quasicrystals", *Journal of Physics: Condensed Matter*, **15**(46): 7981-7996, (2003); doi: [10.1088/0953-8984/15/46/014](https://doi.org/10.1088/0953-8984/15/46/014)
- Dragan Mihailović, Zvonko Jagličič, Denis Arčon, Aleš Mrzel, Andrej Zorko, Maja Remškar, Viktor V. Kabanov, Robert Dominko, Miran Gaberšček, C. J. Gómez-García, J. M. Martínez-Agudo, E. Coronado, "Unusual magnetic state in lithium-doped MoS_2 nanotubes", *Physical Review Letters*, **90**, 146401, (2003); doi: [10.1103/PhysRevLett.90.147202](https://doi.org/10.1103/PhysRevLett.90.147202)
- Tomaž Mertelj, Dragan Mihailović, Zvonko Jagličič, A. A. Bosak, O. Yu. Gorbenko, A. R. Kaul, "Ultrafast photoinduced reflectivity transients in $(\text{Nd}_{0.5}\text{Sr}_{0.5})\text{MnO}_3$ ", *Physical Review B, Condensed Matter and Materials Physics*, **68**(12), 125112, (2003); doi: <https://doi.org/10.1103/PhysRevB.68.125112>

● Zvonko Jagličić, Andrej Jeromen, Zvonko Trontelj, Dragan Mihailović, Denis Arčon, Maja Remškar, Aleš Mrzel, Robert Dominko, Miran Gaberšček, José M. Martínez-Agudo, Carlos J. Gómez-García, Eugenio Coronado, "Magnetic properties of MoS₂ nanotubes doped with lithium", *Polyhedron*, **22**: 2293-2295, (2003); doi: [10.1016/S0277-5387\(03\)00181-5](https://doi.org/10.1016/S0277-5387(03)00181-5)

2002

● Zvonko Jagličić, Janez Pirnat, Zvonko Trontelj, Janko Lužnik, Zoran Mazej, Carlos J. Gómez-García, Eugenio Coronado, "Magnetic study of paramagnetic compounds M(AsF₆)₂ (M = Co, Mn) and Co(AsF₆)₂ · 2L (L = AsF₃, SbF₃, SO₂)", *Acta Chimica Slovenica*, **49**: 221-228, (2002); <http://acta-arhiv.chem-soc.si/49/49-2-221.pdf>

● Janez Dolinšek, Zvonko Jagličić, "Slow relaxation of the thermoremanent magnetization and aging in icosahedral Tb-Mg-Zn quasicrystals", *Journal of Alloys and Compounds*, **342**: 377-380, (2002); doi: [10.1016/S0925-8388\(02\)00258-X](https://doi.org/10.1016/S0925-8388(02)00258-X)

● Janez Dolinšek, Martin Klanjšek, Zvonko Jagličić, Ante Bilušić, Ana Smontara, "Origin of the maximum in the temperature-dependent electrical resistivity of quasicrystals", *Journal of Physics: Condensed Matter*, **14**(28): 6975-6988, (2002); doi: [10.1088/0953-8984/14/28/309](https://doi.org/10.1088/0953-8984/14/28/309)

2001

● Janez Dolinšek, Zvonko Jagličić, M. A. Chernikov, I. R. Fisher, P. C. Canfield, "Unusual spin-glass phase in icosahedral Tb-Mg-Zn quasicrystals", *Physical Review B, Condensed Matter*, **64**(22), 224209, (2001); doi: [10.1103/PhysRevB.64.224209](https://doi.org/10.1103/PhysRevB.64.224209)

2000

● Zvonko Jagličić, Janko Lužnik, Janez Pirnat, Zvonko Trontelj, "Determination of a zero field splitting parameter D in Mn₁₂Ac below 20 K", *Physica B: Condensed Matter*, **284-288**(2): 1219-1220, (2000); doi: [10.1016/S0921-4526\(99\)02692-7](https://doi.org/10.1016/S0921-4526(99)02692-7)

● Janez Pirnat, Zvonko Trontelj, Zvonko Jagličić, Karel Lutar, Horst Borrmann, "Arsenic NQR in the paramagnetic complex Co(AsF₆)₂ · 2AsF₃", *Zeitschrift Für Naturforschung A, A Journal of Physical Sciences*, **55 a**(1-2): 212-214, (2000); doi: [10.1515/zna-2000-1-237](https://doi.org/10.1515/zna-2000-1-237)

1999

● Zvonko Jagličić, Janko Lužnik, Janez Pirnat, Zvonko Trontelj, Aleš Omerzu, Dragan Mihailović, "Magnetism in some charge donor - C₆₀ compounds: SQUID measurements and model studies", *Journal of Magnetism and Magnetic Materials*, **196-197**: 576-577, (1999); doi: [10.1016/S0304-8853\(98\)00843-9](https://doi.org/10.1016/S0304-8853(98)00843-9)

● Zvonko Jagličić, Janko Lužnik, Janez Pirnat, Zvonko Trontelj, Dragan Mihailović, Aleš Mrzel, Aleš Omerzu, "Ferromagnetic behaviour of TDAE - C₆₀ samples studied with a SQUID magnetometer", *Molecular Crystals and Liquid Crystals Science and Technology. Section A, Molecular Crystals and Liquid Crystals*, **334**: 469-475, (1999); doi: [10.1080/10587259908023343](https://doi.org/10.1080/10587259908023343)

● Dragan Mihailović, Aleš Mrzel, Aleš Omerzu, Polona Umek, Zvonko Jagličić, Zvonko Trontelj, "Ferromagnetism below 19 K due to unpaired spins on fullerene molecules", *Molecular Crystals and Liquid Crystals Science and Technology. Section A, Molecular Crystals and Liquid Crystals*, **334**: 415-424, (1999); doi: [10.1080/10587259908023339](https://doi.org/10.1080/10587259908023339)

● Janez Dolinšek, Denis Arčon, Pavel Cevc, Zvonko Jagličić, Zvonko Trontelj, J. L. Gavilano, H. R. Ott, Z. Aoki, H. Sugawara, H. Sato, "Magnetic coupling and low-energy excitations in NdGa₂ studied by ESR", *Physical Review B, Condensed Matter*, **60**(10): 7346-7351, (1999); doi: [10.1103/PhysRevB.60.7346](https://doi.org/10.1103/PhysRevB.60.7346)

1998

● Aleš Mrzel, Aleš Omerzu, Polona Umek, Dragan Mihailović, Zvonko Jagličić, Zvonko Trontelj, "Ferromagnetism in a cobaltocene-doped fullerene derivative below 19 K due to unpaired spins only on fullerene molecules", *Chemical Physics Letters*, **298**(4-6): 329-334, (1998); doi: [10.1016/S0009-2614\(98\)01184-1](https://doi.org/10.1016/S0009-2614(98)01184-1)

● Robert Blinc, Denis Arčon, Pavel Cevc, I. Pocsik, M. Koos, Zvonko Trontelj, Zvonko Jagličić, "¹³C nuclear magnetic resonance and electron spin resonance of amorphous hydrogenated carbon", *Journal of Physics: Condensed Matter*, **10**(30): 6813-6824, (1998); doi: [10.1088/0953-8984/10/30/019](https://doi.org/10.1088/0953-8984/10/30/019)

1997

● Zvonko Jagličić, Zvonko Trontelj, Janko Lužnik, Janez Pirnat, Robert Blinc, "Magnetic properties of TDAE-C₆₀ single crystal and powder samples: the influence of thermal annealing", *Solid State Communications*, **101**: 591-595, (1997); doi: [10.1016/S0038-1098\(96\)00654-0](https://doi.org/10.1016/S0038-1098(96)00654-0)

1996

● Janez Pirnat, Janko Lužnik, Zvonko Jagličić, Zvonko Trontelj, "Dehydration of wet SnCl₂(OH₂) · H₂O powder in gas stream", *Journal de Physique I*, **6**: 1237-1248, (1996); doi: [10.1051/jp1:1996126](https://doi.org/10.1051/jp1:1996126)

● Robert Blinc, Konstantin Pokhodnia, Pavel Cevc, Denis Arčon, Aleš Omerzu, Dragan Mihailović, Peter Venturini, Ljubo Golič, Zvonko Trontelj, Janko Lužnik, Zvonko Jagličić, Janez Pirnat, "Antiferromagnetic correlations and weak ferromagnetism in a TDAD⁺ - C₆₀⁻ single crystal", *Physical Review Letters*, **76**: 523-526, (1996); doi: [10.1103/PhysRevLett.76.523](https://doi.org/10.1103/PhysRevLett.76.523)

1994

● Janez Pirnat, Janko Lužnik, Zvonko Jagličić, Zvonko Trontelj, "Dehydration of solid SnCl₂(OH₂) · H₂O to SnCl₂sl", *Zeitschrift Für Naturforschung A, A Journal of Physical Sciences*, **49 a**: 367-372, (1994); doi: [10.1515/zna-1994-1-254](https://doi.org/10.1515/zna-1994-1-254)