

Original Papers

312. Dianionic States of Trithiadodecaazaazaphyrin Complexes with Homotrinnuclear  $M^{\text{II}}_3\text{O}$  Clusters (M = Ni and Cu): Crystal Structures, Metal- Or Macrocycle-Centered Reduction, and Doublet-Quartet Transitions in the Dianions  
D.I. Nazarov, M.K. Islyaikin, E.N. Ivanov, O.I. Koifman, M.S. Batov, L.V. Zorina, S.S. Khasanov, A.F. Shestakov, E.I. Yudanov, YA. Zhabanov, D.A. Vyalkin, A. Otsuka, H. Yamochi, H. Kitagawa, T. Torres, D.V. Konarev  
Inorg. Chem., **60**(13), 9857-9868 (2021) DOI: 10.1021/acs.inorgchem.1c01132
311. Magnetic field driven transition between valence bond solid and antiferromagnetic order in a distorted triangular lattice  
Y. Shimizu, M. Maesato, M. Yoshida, M. Takigawa, M. Itoh, A. Otsuka, H. Yamochi, Y. Yoshida, G. Kawaguchi, D. Graf, G. Saito  
Phys. Rev. Res., **3**(2), 023145 (2021) DOI: 10.1103/PhysRevResearch.3.023145
310. Emergence of Metallic Conduction and Cobalt(II)-Based Single-Molecule Magnetism in the Same Temperature Range  
Y. Shen, H. Ito, H. Zhang, H. Yamochi, G. Cosquer, C. Herrmann, T. Ina, S.K. Yoshina, B.K. Breedlove, A. Otsuka, M. Ishikawa, T. Yoshida, M. Yamashita  
J. Am. Chem. Soc., **143**(13), 4891-4895 (2021) DOI: 10.1021/jacs.1c00455
309. Reversible dissociation of singly-bonded  $(\text{C}_{60}^-)_2$  dimers in  $(\text{MV}^+)_2(\text{C}_{60}^-)_2$ ·solvent salt containing paramagnetic methyl viologen  $\text{MV}^+$  radical cations  
D.V. Konarev, S.S. Khasanov, O.A. Obraztsov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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308. Magnetic Exchange through the Dianionic Hexaazatrinaphthylene (HATNA) Ligand in  $\{\text{HATNA}(\text{Fe}^{\text{II}}\text{Cl}_2)_3\}^{2-}$  Containing  $\text{Fe}^{\text{II}}$  (S=2) Triangles  
D.V. Konarev, S.S. Khasanov, M.V. Mikhailenko, M.S. Batov, A.F. Shestakov, A.V. Kuzmin, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Eur. J. Inorg. Chem., **2021**(1), 86-92 (2021) DOI: 10.1002/ejic.202000946
307. Effect of reduction on the molecular structure and optical and magnetic properties of fluorinated copper(II) phthalocyanines  
D.V. Konarev, M.A. Faraonov, M.S. Batov, M.G. Andronov, A.V. Kuzmin, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Dalton Trans., **49**(46), 16821-16829 (2020) DOI: 10.1039/d0dt02635b
306. Solid-State Properties of Hexaazatriphenylenehexacarbonitrile  $\text{HAT}(\text{CN})_6^-$  Radical Anions in Crystalline Salts Containing Cryptand( $\text{M}^+$ ) and Crystal Violet Cations  
D.V. Konarev, S.S. Khasanov, A.V. Kuzmin, M.V. Mikhailenko, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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305. Simultaneous manifestation of metallic conductivity and single-molecule magnetism in a layered molecule-based compound  
Y. Shen, H. Ito, H. Zhang, H. Yamochi, S. Katagiri, S.K. Yoshina, A. Otsuka, M. Ishikawa, G. Cosquer, K. Uchida, C. Herrmann, T. Yoshida, B.K. Breedlove, M. Yamashita  
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304. Decacyclene Radical Anions Showing Strong Low-energy Intramolecular Absorption and Magnetic Coupling of Spins in a Hexagonal Network  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A.F. Shestakov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Chem Asian J., **15**(17), 2689-2695 (2020) DOI: 10.1002/asia.202000615
303. Radical Anions of Free-Base Tetraphenyl- and Tetrakis(pentafluoro-phenyl)porphyrins: Effect of Substituents on the Properties and Charge Disproportionation in {Cryptand[2.2.2](Cs<sup>+</sup>)}(H<sub>2</sub>TPP<sup>•-</sup>)  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A.F. Shestakov, D.I. Nazarov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Eur. J. Inorg. Chem., **2020**(27), 2615-2623 (2020) DOI: 10.1002/ejic.202000337
302. Flavanthrone - a new ligand with accessible radical anion and dianion states: preparation of zwitterionic {(Cp<sub>2</sub>V)<sub>2</sub>(flavanthrone)} and {(Cp<sub>2</sub>V)<sub>2</sub>(chloranil)} complexes  
D.V. Konarev, M.G. Andronov, M.S. Batov, A.V. Kuzmin, S.S. Khasanov, A.F. Shestakov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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301. Strong magnetic coupling of spins in Fe(II) dimers with differently charged thioindigo ligands  
D.V. Konarev, A.V. Kuzmin, M.S. Batov, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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300. Metal phthalocyanine (CV<sup>+</sup>)(MCl<sub>2</sub>Pc)<sup>-</sup> salts with two chromophores (CV<sup>+</sup>: Crystal violet, Pc: Phthalocyanine) based on Sn<sup>II</sup>Pc and Fe<sup>III</sup>ClPc phthalocyanines  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Inorg. Chim. Acta, **510**, 119732/1-6 (2020) DOI: 10.1016/j.ica.2020.119732
299. Canting Antiferromagnetic Spin-Order (*T<sub>N</sub>* = 102 K) in a Monomer Mott Insulator (ET)Ag<sub>4</sub>(CN)<sub>5</sub> with a Diamond Spin-Lattice  
A. Otsuka, Y. Shimizu, G. Saito, M. Maesato, A. Kiswandhi, T. Hiramatsu, Y. Yoshida, H. Yamochi, M. Tsuchiizu, Y. Nakamura, H. Kishida, H. Ito  
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298. Cleavage of the C-H Bond in Bu<sub>3</sub>MeP<sup>+</sup> by Zinc Porphyrin Dianions: Formation of {Zn<sup>II</sup>(CH<sub>2</sub>PBu<sub>3</sub>)(TPyPH)}<sup>-</sup> Containing Zn-C(ylide) Bond and the (TPyPH)<sup>3-</sup> Macrocycle Showing Strong NIR Absorption  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A.F. Shestakov, A.L. Litvinov, P.A. Sobov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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297. Double-Decker Paramagnetic {(K)(H<sub>3</sub>Hhp)<sub>2</sub>}<sup>•2-</sup> Radical Dianions Comprising Two [30]Trithia-2,3,5,10,12,13,15,20,22,23,25,30-Dodecaazahexaphyrins and a Potassium Ion  
D. V. Konarev, S.S. Khasanov, M.K. Islyaikin, A. Otsuka, H. Yamochi, H. Kitagawa, R. N. Lyubovskaya, . N. Ivanov, O. I. Koifman, Y. A. Zhabanov  
Chem. Asian J., **15**(1), 61-65 (2020) DOI: 10.1002/asia.201901518
296. Molecular structures, and optical and magnetic properties of free-base tetrapyrizinoporphyrine in various reduction states  
D.V. Konarev, M.A. Faraonov, A.V. Kuzmin, N.G. Osipov, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya

295. Disorder-Enhanced Dimensionless Thermoelectric Figure of Merit  $zT$  of Non-stoichiometric Organic Conductor  $(\text{TTT})_2\text{I}_{3+\delta}$  ( $\delta \leq 0.1$ )  
H. Yoshino, A. Hasegawa, N. Kuroda, M. Ishikawa, R. Tanaka, M. Kozaki, Y. Nakano, A. Otsuka, H. Yamochi  
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M.A. Faraonov, N.R. Romanenko, A.V. Kuzmin, D.V. Konarev, A.F. Shestakov, P.A. Stuzhin, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R. N. Lyubovskaya  
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293. Electronic Communication between  $S=1/2$  Spins in Negatively-charged Double-caged Fullerene  $\text{C}_{60}$  Derivative Bonded by Two Single Bonds and Pyrrolizidine Bridge  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A.A. Goryunkov, V.A. Brotsman, I.N. Ioffe, A. Otsuka, H. Yamochi, H. Kitagawa, R. N. Lyubovskaya  
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292. Optical and magnetic properties of trans-indigo $^{\cdot-}$  radical anions. Magnetic coupling between transindigo $^{\cdot-}$  ( $S = 1/2$ ) mediated by intermolecular hydrogen N-H $\cdots$ O=C bonds  
D.V. Konarev, L.V. Zorina, M.S. Batov, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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290. Effect of One- and Two-Electron Reduction of Terbium(III) Double-Decker Phthalocyanine on Single-Ion Magnet Behavior and NIR Absorption  
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T. Ishikawa, Y. Urasawa, T. Shindo, Y. Okimoto, S. Koshihara, S. Tanaka, K. Onda, T. Hiramatsu, Y. Nakano, K. Tanaka, H. Yamochi  
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D.V. Konarev, A.V. Kuzmin, R.S. Galkin, S.S. Khasanov, R.F. Kurbanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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D.V. Konarev, A.V. Kuzmin, M.S. Batov, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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281. Crystal structure and physical properties of radical cation salt based on 4,5-ethylenedioxy-4'-iodotetrathiafulvalene (EDO-TTF-I) with iodine bonding ability  
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D.V. Konarev, A.V. Kuzmin, Y. Nakano, S.S. Khasanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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278. Solid State Structure, and Optical and Magnetic Properties, of Free Base Tetra(4-pyridyl)porphyrin {H<sub>2</sub>T(4-Py)P}<sup>•-</sup> Radical Anions  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A.F. Shestakov, E.I. Yudanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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D.V. Konarev, S.S. Khasanov, A.F. Shestakov, A.M. Fatalov, M.S. Batov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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275. Reaction of tin(IV) phthalocyanine dichloride with decamethylmetallocenes (M = Cr<sup>II</sup> and Co<sup>II</sup>). Strong magnetic coupling of spins in  $(Cp^*_2Co^+)\{Sn^{IV}Cl_2(Pc^{3-})\} \cdot 2C_6H_4Cl_2$   
D.V. Konarev, S.I. Troyanov, A.F. Shestakov, E.I. Yudanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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274. Coordination Complexes of Fullerene C<sub>60</sub> with Rhodium  $\{Cp^*Rh^{II}(\mu-Cl)\}_2(\eta^2, \eta^2-C_{60})$  and  $(Bu_4N^+)\{Cp^*Rh^ICl(\eta^2-C_{60})\}^-$ . Temperature-Induced Charge Transfer from Rh<sup>I</sup> to  $\eta^2-C_{60}$   
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, S.I. Troyanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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D.V. Konarev, D.R. Karimov, S.S. Khasanov, A.F. Shestakov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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D.V. Konarev, S.S. Khasanov, S.I. Troyanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
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270. Crystalline salts of metal phthalocyanine radical anions  $[M(Pc^{3-})] \cdot (M = Cu^{II}, Pb^{II}, V^{IV}, Sn^{IV}Cl_2)$  with cryptand(Na<sup>+</sup>) cations: structure, optical and magnetic properties  
D.V. Konarev, M.A. Faraonov, A.V. Kuzmin, S.S. Khasanov, Y. Nakano, S.I. Norko, M.S. Batov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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