

Original Papers

274. Interligand Charge Transfer in a Complex of Deprotonated cis-Indigo Dianions and Tin(II) Phthalocyanine Radical Anions with Cp\*Ir<sup>III</sup>  
D.V. Konarev, L.V. Zorina, S.S. Khasanov, A.F. Shestakov, A.M. Fatalov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Inorg. Chem., **57**(2), 583-589 (2018) DOI: 10.1021/acs.inorgchem.7b02351
273. Solid state structures and properties of free-base 5,10,15-triphenylcorrole (TPCor) anions obtained by deprotonation and reduction. Effective magnetic coupling of spins in (Cp\*<sub>2</sub>Cr<sup>+</sup>)(H<sup>+</sup>)(H<sub>2</sub>TPCor<sup>2-</sup>)·C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
D.V. Konarev, D.R. Karimov, S.S. Khasanov, A.F. Shestakov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
Dalton Trans., **46**(40), 13994-14001 (2017) DOI: 10.1039/c7dt02901b
272. The Concentration Control of Magnetic Fullerene C<sub>60</sub><sup>•-</sup> Radical Anions in a Crystal Lattice of the (Bu<sub>4</sub>N<sup>+</sup>)<sub>2</sub>{(C<sub>60</sub><sup>•-</sup>)·C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>}<sub>x</sub>{[CpMo(CO)<sub>2</sub>C<sub>60</sub>]}<sub>2-x</sub> (x=1, 0.74) Complexes  
D.V. Konarev, S.S. Khasanov, S.I. Troyanov, A. Otsuka, H. Yamochi, H. Kitagawa, R.N. Lyubovskaya  
ChemistrySelect, **2**(23), 6640-6644 (2017) DOI: 10.1002/slct.201701083
271. Design and Preparation of a Quantum Spin Liquid Candidate κ-(ET)<sub>2</sub>Ag<sub>2</sub>(CN)<sub>3</sub> Having a Nearby Superconductivity  
T. Hiramatsu, Y. Yoshida, G. Saito, A. Otsuka, H. Yamochi, M. Maesato, Y. Shimizu, H. Ito, Y. Nakamura, H. Kishida, M. Watanabe, R. Kumai  
Bull. Chem. Soc. Jpn., **90**(9), 1073-1082 (2017) DOI: 10.1246/bcsj.20170167
270. Crystalline salts of metal phthalocyanine radical anions [M(Pc<sup>•3-</sup>)]<sup>-</sup> (M = Cu<sup>II</sup>, Pb<sup>II</sup>, V<sup>VO</sup>, Sn<sup>IV</sup>Cl<sub>2</sub>) 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. Noriko, M.S. Batov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
New J. Chem., **41**(14), 6866-6874 (2017) DOI: 10.1039/c7nj00530j
269. Ultrafast electron diffraction study of single-crystal (EDO-TTF)<sub>2</sub>SbF<sub>6</sub>: Counterion effect and dimensionality reduction  
L.C. Liu, Y. Jiang, H.M. Mueller-Werkmeister, C. Lu, G. Moriena, M. Ishikawa, Y. Nakano, H. Yamochi, R.J.D. Miller  
Chem. Phys. Lett., **683**, 160-165 (2017) DOI: 10.1016/j.cplett.2017.05.007
268. Racemic charge-transfer complexes of a helical polycyclic aromatic hydrocarbon molecule  
Y. Yoshida, Y. Nakamura, H. Kishida, H. Hayama, Y. Nakano, H. Yamochi, G. Saito  
CrystEngComm, **19**(26), 3626-3632 (2017) DOI: 10.1039/c7ce00763a
267. Fullerene C<sub>60</sub> dianion salt, (Me<sub>4</sub>N<sup>+</sup>)<sub>2</sub>(C<sub>60</sub><sup>2-</sup>)·(TPC)<sub>2</sub>·2C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>, where TPC is triptycene, obtained by a multicomponent approach  
D.V. Konarev, S.I. Troyanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
New J. Chem., **41**(12), 4779-4782 (2017) DOI: 10.1039/c7nj01096f
266. Tetrabutylammonium Salts of Aluminum(III) and Gallium(III) Phthalocyanine Radical Anions Bonded with Fluoren-9-olato<sup>-</sup> Anions and Indium(III) Bromide Phthalocyanine Radical Anions  
D.V. Konarev, S.S. Khasanov, M. Ishikawa, Y. Nakano, A. Otsuka, H. Yamochi, G. Saito, R.N.

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265. Magnetic-Nonmagnetic Phase Transition with Interlayer Charge Disproportionation of Nb<sub>3</sub> Trimers in the Cluster Compound Nb<sub>3</sub>Cl<sub>8</sub>  
Y. Haraguchi, C. Michioka, M. Ishikawa, Y. Nakano, H. Yamochi, H. Ueda, K. Yoshimura  
Inorg. Chem., **56**(6), 3483-3488 (2017) DOI: 10.1021/acs.inorgchem.6b03028
264. Charge transfer complexes of metal-free phthalocyanine radical anions with decamethylmetallocenium cations: (Cp\*<sub>2</sub>Co<sup>+</sup>)(H<sub>2</sub>Pc<sup>-</sup>)· solvent and (Cp\*<sub>2</sub>Cr<sup>+</sup>)(H<sub>2</sub>Pc<sup>-</sup>)· 4C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>  
D.V. Konarev, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Dalton Trans., **46**(11), 3492-3499 (2017) DOI: 10.1039/c7dt00336f
263. The Salts of Copper Octafluoro- and Hexadecafluorophthalocyanines Containing [Cu<sup>II</sup>(F<sub>8</sub>Pc)<sup>4-</sup>]<sup>2-</sup> Dianions and [CuF<sub>16</sub>Pc]<sup>-</sup> Monoanions  
D.V. Konarev, S.I. Troyanov, A.V. Kuzmin, Y. Nakano, M. Ishikawa, M.A. Faraonov, S.S. Khasanov, A.L. Litvinov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Inorg. Chem., **56**(4), 1804-1813 (2017) DOI: 10.1021/acs.inorgchem.6b01932
262. Magnetic and Optical Properties of Layered (Me<sub>4</sub>P<sup>+</sup>)[M<sup>IVO</sup>(Pc<sup>3-</sup>)]<sup>-</sup>(TPC)<sub>0.5</sub>· C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub> Salts (M = Ti and V) Composed of π-Stacking Dimers of Titanyl and Vanadyl Phthalocyanine Radical Anions  
D.V. Konarev, Y. Nakano, S.S. Khasanov, A.V. Kuzmin, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Cryst. Growth Des., **17**(2), 753-762 (2017) DOI: 10.1021/acs.cgd.6b01612
261. Spin Crossover in Anionic Cobalt-Bridged Fullerene (Bu<sub>4</sub>N<sup>+</sup>){Co(Ph<sub>3</sub>P)}<sub>2</sub>(μ<sub>2</sub>-Cl)(μ<sub>2</sub>-η<sup>2</sup>, η<sup>2</sup>-C<sub>60</sub>)<sub>2</sub> Dimers  
D.V. Konarev, S.S. Khasanov, A.F. Shestakov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
J. Am. Chem. Soc., **138**(51), 16592-16595 (2016) DOI: 10.1021/jacs.6b09890
260. cis-Conformation of Indigo in the Coordination Complex (Indigo-O,O)(Cp\*Cr<sup>II</sup>Cl)  
D.V. Konarev, S.S. Khasanov, A.V. Kuzmin, A.F. Shestakov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Dalton Trans., **45**(43), 17095-17099 (2016) DOI: 10.1039/c6dt03545k
259. BEDT-TTF Salts Formed with Tetrahedrally Coordinated Zinc(II) Complex Anions  
Y. Yoshida, H. Ito, Y. Nakamura, M. Ishikawa, A. Otsuka, H. Hayama, M. Maesato, H. Yamochi, H. Kishida, G. Saito  
Cryst. Growth Des., **16**(11), 6613-6630 (2016) DOI: 10.1021/acs.cgd.6b01294
258. Cationic π-Stacking Columns of Coronene Molecules with Fully Charged and Charge-Disproportionated States  
Y. Yoshida, K. Isomura, M. Maesato, T. Koretsune, Y. Nakano, H. Yamochi, H. Kishida, G. Saito  
Cryst. Growth Des., **16**(10), 5994-6000 (2016) DOI: 10.1021/acs.cgd.6b01039
257. Bis(N-methylimidazole)-Substituted Neutral Phthalocyanines {M<sup>III</sup>(MeIm)<sub>2</sub>(Pc)<sup>3-</sup>}<sup>0</sup> (M = Al, Ga) Containing Radical Trianionic Phthalocyanine Macrocycles  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Eur. J. Inorg. Chem., **2016**(25), 4099-4013 (2016) DOI: 10.1002/ejic.201600680

256. Pressure-Tuned Exchange Coupling of a Quantum Spin Liquid in the Molecular Triangular Lattice  $\kappa$ -(ET)<sub>2</sub>Ag<sub>2</sub>(CN)<sub>3</sub>  
Y. Shimizu, T. Hiramatsu, M. Maesato, A. Otsuka, H. Yamochi, A. Ono, M. Itoh, M. Yoshida, M. Takigawa, Y. Yoshida, G. Saito  
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255. A Crystalline Anionic Complex of Scandium Nitride Endometallo-fullerene: Experimental Observation of Single-bonded (Sc<sub>3</sub>N@I<sub>h</sub>-C<sub>80</sub><sup>-</sup>)<sub>2</sub> dimers  
D.V. Konarev, L.V. Zorina, S.S. Khasanov, A.A. Popov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Chem. Commun., **52**(71), 10763-10766 (2016) DOI: 10.1039/c6cc05550h
254. SnPhPc Phthalocyanines with Dianion Pc<sup>2-</sup> and Radical Trianion Pc<sup>3-</sup> Macrocycles: Syntheses, Structures, and Properties  
D.V. Konarev, A.V. Kuzmin, Y. Nakano, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Dalton Trans., **45**(26), 10780-10788 (2016) DOI: 10.1039/c6dt01132b
253. Synthesis, Structure, and Properties of the Fullerene C<sub>60</sub> Salt of Crystal Violet, (CV<sup>+</sup>)(C<sub>60</sub><sup>-</sup>)·0.5C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>, which Contained Closely Packed Zigzagged C<sub>60</sub><sup>-</sup> Chains  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Chem. Asian J., **11**(11), 1705-1710 (2016) DOI: 10.1002/asia.201600242
252. Conducting  $\pi$ -Columns of Highly Symmetric Coronene, the Smallest Fragment of Graphene  
Y. Yoshida, K. Isomura, H. Kishida, Y. Kumagai, M. Mizuno, M. Sakata, T. Koretsune, Y. Nakano, H. Yamochi, M. Maesato, G. Saito  
Chem. Eur. J., **22**(17), 6023-6030 (2016) DOI: 10.1002/chem.201505023
251. Charge Transfer Complexes of Fullerenes Containing C<sub>60</sub><sup>-</sup> and C<sub>70</sub><sup>-</sup> Radical Anions with Paramagnetic Co<sup>II</sup>(dppe)<sub>2</sub>Cl<sup>+</sup> Cations (dppe: 1,2-Bis(diphenylphosphino)ethane)  
D.V. Konarev, S.I. Troyanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Dalton Trans., **45**(15), 6548-6554 (2016) DOI: 10.1039/c5dt04627k
250. Effective Magnetic Coupling with Strong Spin Frustration in (Ph<sub>3</sub>MeP<sup>+</sup>)(C<sub>60</sub><sup>-</sup>) and Reversible C<sub>60</sub> Dimerization in (Ph<sub>3</sub>MeP<sup>+</sup>)(C<sub>60</sub><sup>-</sup>)·C<sub>6</sub>H<sub>5</sub>CN. Effect of Solvent on Structure and Properties  
D.V. Konarev, S.S. Khasanov, A.V. Kuzmin, A. Otsuka, H. Yamochi, G. Saito, R. N. Lyubovskaya  
New J. Chem., **40**(3), 2792-2798 (2016) DOI: 10.1039/c5nj02886h
249. Metallic Conductivity versus Charge Disproportionation in C<sub>60</sub> Complexes with Noninteger Average Charges on Fullerene  
D.V. Konarev, S.S. Khasanov, M. Ishikawa, E.I. Yudanov, A.F. Shevchun, M.S. Mikhailov, P.A. Stuzhin, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
ChemistrySelect, **1**(2), 323-330 (2016) DOI: 10.1002/slct.201500021
248. Coordination Complexes of Transition Metals (M = Mo, Fe, Rh, and Ru) with Tin(II) Phthalocyanine in Neutral, Monoanionic, and Dianionic States  
D.V. Konarev, A.V. Kuzmin, Y. Nakano, M.A. Faraonov, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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247. Ambient-pressure Organic Superconductor  $\kappa$ -(ET)<sub>2</sub>Ag(CN)[N(CN)<sub>2</sub>] Formed with Polymeric Silver(I) Complex Anion  
Y. Yoshida, H. Hayama, M. Ishikawa, A. Otsuka, H. Yamochi, Y. Nakamura, H. Kishida, H.

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246. Spin Frustration in Antiperovskite Systems: (TTF<sup>•+</sup> or TSF<sup>•+</sup>)<sub>3</sub>[(Mo<sub>6</sub>X<sub>14</sub>)<sup>2-</sup>Y]  
 T. Hiramatsu, Y. Yoshida, G. Saito, A. Otsuka, H. Yamochi, Y. Shimizu, Y. Hattori, Y. Nakamura, H. Kishida, H. Ito, K. Kirakci, S. Cordierf, C. Perrinf  
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245. Local Response to Light Excitation in the Chargeordered Phase of (EDO-TTF)<sub>2</sub>SbF<sub>6</sub>  
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244. Formation of {Co(dppe)}<sub>2</sub>{μ<sub>2</sub>-η<sup>2</sup>:η<sup>2</sup>-η<sup>2</sup>:η<sup>2</sup>-[(C<sub>60</sub>)<sub>2</sub>] Dimers Bonded by Two Single C–C Bonds and Two Bridging η<sup>2</sup>-Coordinated Cobalt Atoms  
 D.V. Konarev, S.I. Troyanov, K.A. Ustimenko, Y. Nakano, A.F. Shestakov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
*Inorg. Chem.*, **54**(10), 4597-4599 (2015) DOI: 10.1021/acs.inorgchem.5b00637
243. Anionic coordination complexes of C<sub>60</sub> and C<sub>70</sub> with cyclopentadienyl and pentamethylcyclopentadienyl molybdenum dicarbonyl  
 D.V. Konarev, A.V. Kuzmin, S.I. Troyanov, Y. Nakano, S. S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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242. Coordination Complexes of Pentamethylcyclopentadienyl Iridium(III) Halides with Tin(II) Phthalocyanine and Pentamethylcyclopentadienyl Iridium(II) Halides with Fullerene C<sub>60</sub><sup>-</sup> Anions  
 D. V. Konarev, S.I. Troyanov, A.V. Kuzmin, Y. Nakano, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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241. Quantum Spin Liquid: Design of a Quantum Spin Liquid Next to a Superconducting State Based on a Dimer-type ET Mott Insulator  
 T. Hiramatsu, Y. Yoshida, G. Saito, A. Otsuka, H. Yamochi, M. Maesato, Y. Shimizu, H. Ito, H. Kishida  
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240. Synthesis, Structures, and Properties of Crystalline Salts with Radical Anions of Metal-Containing and Metal-Free Phthalocyanines  
 D.V. Konarev, A.V. Kuzmin, M.A. Faraonov, M. Ishikawa, S.S. Khasanov, Y. Nakano, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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239. Molecular Structure, Optical and Magnetic Properties of the {Sn<sup>IV</sup>Pc(3-Cl)<sub>2</sub>}<sup>-</sup> Radical Anions Containing Negatively Charged Pc Ligands  
 D.V. Konarev, S.I. Troyanov, M.A. Faraonov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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238. Linear Coordination Fullerene C<sub>60</sub> Polymer [{Ni(Me<sub>3</sub>P)<sub>2</sub>}(μ-η<sup>2</sup>, η<sup>2</sup>-C<sub>60</sub>)]<sub>∞</sub> Bridged by Zerovalent Nickel Atoms  
 D.V. Konarev, S.S. Khasanov, Y. Nakano, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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237. Molecular structure and optical properties of a nickel-bridged  $\{\text{Ni}(\text{Ph}_3\text{P})\}_2(\mu_2-\eta^2, \eta^2-\text{C}_{60})_2$  dimer  
D.V. Konarev, S.I. Troyanov, Y. Nakano, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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236. Inclusion Complexes of Fullerenes with Flexible Tetrathiafulvalene Derivatives Bearing Four Aryls through the Sulfur Bridges  
J. Sun, X. Lu, M. Ishikawa, Y. Nakano, S. Zhang, J. Zhao, Y. Shao, Z. Wang, H. Yamochi, X.F. Shao  
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235. Design, crystal structures and magnetic properties of anionic salts containing fullerene  $\text{C}_{60}$  and indium(III) bromide phthalocyanine radical anions  
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
Dalton Trans., **43**(34), 13061-13069 (2014) DOI: 10.1039/c4dt01153h
234. Structural and Physical Properties of  $(\text{EDO-TTF-Cl})_2\text{XF}_6$  ( $X = \text{As}, \text{Sb}$ ): Geometrical Aspects for Monosubstituted EDO-TTF (EDO-TTF = 4,5-ethylenedioxytetrathiafulvalene)  
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233. Isotropic Three-Dimensional Molecular Conductor Based on the Coronene Radical Cation  
Y. Yoshida, M. Maesato, Y. Kumagai, M. Mizuno, K. Isomura, H. Kishida, M. Izumi, Y. Kubozono, A. Otsuka, H. Yamochi, G. Saito, K. Kirakci, S. Cordier, C. Perrin  
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232. Layered Salts with Iron Hexadecachlorophthalocyanine Anions - The Formation of  $[\{\text{FeCl}_{16}\text{Pc}\}_2]^{3-}$  Dimers Containing  $[\text{Fe}^{\text{I}}\text{Cl}_{16}\text{Pc}(2-)]^-$  and diamagnetic  $[\text{Fe}^{\text{0}}\text{Cl}_{16}\text{Pc}(2-)]^{2-}$   
D.V. Konarev, A.V. Kuzmin, M. Ishikawa, Y. Nakano, M.A. Faraonov, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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231. Formation of Hexagonal Fullerene Layers from Neutral and Negatively Charged Fullerenes in  $\{(\text{Ph}_3\text{P})_3\text{Au}^+\}_2(\text{C}_{60}^{\bullet-})_2(\text{C}_{60})\cdot\text{C}_6\text{H}_4\text{Cl}_2$  Containing Gold Cations with the  $\text{C}_{3v}$  Symmetry  
D.V. Konarev, S.S. Khasanov, A. Otsuka, M. Ishikawa, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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230. Strong Antiferromagnetic Coupling of Spins in the  $(\text{MDABCO}^+)(\text{C}_{60}^{\bullet-})$  Salt with 3D Close Packing of the  $\text{C}_{60}^{\bullet-}$  Radical Anions (MDABCO<sup>+</sup>: N-Methyldiazabicyclooctanium Cation)  
D.V. Konarev, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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229. Metallic and Mott Insulating Spin-frustrated Antiferromagnetic States in Ionic Fullerene Complexes with a Two-dimensional Hexagonal  $\text{C}_{60}^{\bullet-}$  Packing Motif  
D.V. Konarev, S.S. Khasanov, A. Otsuka, M. Maesato, M. Uruichi, K. Yakushi, A.F. Shevchun, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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228. Coherent Dynamics of Photoinduced Phase Formation in a Strongly Correlated Organic Crystal  
Y. Matsubara, S. Ogihara, J. Itatani, N. Maeshima, K. Yonemitsu, T. Ishikawa, Y. Okimoto, S. Koshihara, T. Hiramatsu, Y. Nakano, H. Yamochi, G. Saito, K. Onda  
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227. Mononuclear Coordination Complexes of Fullerene C<sub>60</sub> with Zerovalent Cobalt Having S = 1/2 Spin State: Co( $\eta^2$ -C<sub>60</sub>)(L)(C<sub>6</sub>H<sub>5</sub>CN)·(o-C<sub>6</sub>H<sub>4</sub>Cl<sub>2</sub>) (L = 1,2-bis(diphenylphosphino)ethane and 1,1'-bis(diphenylphosphino)ferrocene)  
D.V. Konarev, S.S. Khasanov, S.I. Troyanov, Y. Nakano, K.A. Ustimenko, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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226. Molecular Design of Anionic Phthalocyanines with  $\pi$ - $\pi$  Stacking Columnar Arrangement. Crystal Structures, Optical, and Magnetic Properties of Salts with the Iron(II) Hexadecachlorophthalocyanine Anions  
D.V. Konarev, L.V. Zorina, M. Ishikawa, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya  
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