List of Publications

Hideki Yamochi
October 18, 2017

Original Papers

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 $(Cp^*_2Cr^+)(H^+)(H_2TPCor^{\bullet 2-})\cdot C_6H_4Cl_2$
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 $C_{60}^{\bullet -}$ Radical Anions in a Crystal Lattice of the $(Bu_4N^+)_2\{(C_{60}^{\bullet -})\cdot C_6H_4Cl_2\}_x$ $\{[CpMo(CO)_2C_{60}]^-\}_{2-x}$ (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−$(ET)_2Ag_2(CN)_3$ 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 $[M(Pc^{\bullet 3-})]^{\bullet -}$ (M = Cu^{II}, Pb^{II}, $V^{IV}O$, $Sn^{IV}Cl_2$) with cryptand(Na^+) 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
New J. Chem., **41**(14), 6866-6874 (2017) DOI: 10.1039/c7nj00530j

269. Ultrafast electron diffraction study of single-crystal $(EDO\text{-}TTF)_2SbF_6$: 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_{60} dianion salt, $(Me_4N^+)_2(C_{60}^{2-})\cdot (TPC)_2\cdot 2C_6H_4Cl_2$, 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$^-$ 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. Lyubovskaya
Chem. Asian J., **12**(8), 910-919 (2017) DOI: 10.1002/asia.201700138

265. Magnetic-Nonmagnetic Phase Transition with Interlayer Charge Disproportionation of Nb_3 Trimers in the Cluster Compound Nb_3Cl_8
Y. Haraguchi, C. Michioka, M. Ishikawa, Y. Nakano, H. Yamochi, H. Ueda, K. Yoshimura

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264. Charge transfer complexes of metal-free phthalocyanine radical anions with decamethylmetallocenium cations: $(Cp^*_2Co^+)(H_2Pc^{\bullet-})\cdot$ solvent and $(Cp^*_2Cr^+)(H_2Pc^{\bullet-})\cdot 4C_6H_4Cl_2$
D.V. Konarev, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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263. The Salts of Copper Octafluoro- and Hexadecafluorophthalocyanines Containing $[Cu^{II}(F_8Pc)^{4-}]^{2-}$ Dianions and $[CuF_{16}Pc]^-$ 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 $(Me_4P^+)[M^{IV}O(Pc^{\bullet3-})]^{\bullet-}(TPC)_{0.5}\cdot C_6H_4Cl_2$ Salts (M = Ti and V) Composed of π-Stacking Dimers of Titanyl and Vanadyl Phthalocyanine Radical Anions
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Cryst. Growth Des., **17**(2), 753-762 (2017) DOI: 10.1021/acs.cgd.6b01612

261. Spin Crossover in Anionic Cobalt-Bridged Fullerene $(Bu_4N^+)\{Co(Ph_3P)\}_2(\mu_2\text{-}Cl^-)(\mu_2\text{-}\eta^2,\eta^2\text{-}C_{60})_2$ 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*)$(Cp^*Cr^{II}Cl)$
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
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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
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257. Bis(N-methylimidazole)-Substituted Neutral Phthalocyanines $\{M^{III}(MeIm)_2(Pc)^{\bullet3-}\}^0$ (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
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256. Pressure-Tuned Exchange Coupling of a Quantum Spin Liquid in the Molecular Triangular Lattice $\kappa\text{-}(ET)_2Ag_2(CN)_3$
Y. Shimizu, T. Hiramatsu, M. Maesato, A. Otsuka, H. Yamochi, A. Ono, M. Itoh, M. Yoshida, M. Takigawa, Y. Yoshida, G. Saito
Phys. Rev. Lett., **117**(10), 107203/1-6 (2016) DOI: 10.1103/PhysRevLett.117.107203

255. A Crystalline Anionic Complex of Scandium Nitride Endometallo-fullerene: Experimental Observation of Single-bonded $(Sc_3N@I_h\text{-}C_{80}^{-})_2$ 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^{2-} and Radical Trianion $Pc^{\bullet 3-}$ 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_{60} Salt of Crystal Violet, $(CV^{+})(C_{60}^{\bullet -})\cdot 0.5C_6H_4Cl_2$, which Contained Closely Packed Zigzagged $C_{60}^{\bullet -}$ Chains
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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252. Conducting π-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
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251. Charge Transfer Complexes of Fullerenes Containing $C_{60}^{\bullet -}$ and $C_{70}^{\bullet -}$ Radical Anions with Paramagnetic $Co^{II}(dppe)_2Cl^{+}$ Cations (dppe: 1,2-Bis(diphenylphosphino)ethane)
D.V. Konarev, S.I. Troyanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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250. Effective Magnetic Coupling with Strong Spin Frustration in $(Ph_3MeP^{+})(C_{60}^{\bullet -})$ and Reversible C_{60} Dimerization in $(Ph_3MeP^{+})(C_{60}^{\bullet -})\cdot C_6H_5CN$. 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

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D.V. Konarev, S.S. Khasanov, M. Ishikawa, E.I. Yudanova, A.F. Shevchun, M.S. Mikhailov, P.A. Stuzhin, A. Otsuka, H. Yamochi, G. Saito , R.N. Lyubovskaya
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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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Y. Yoshida, H. Hayama, M. Ishikawa, A. Otsuka, H. Yamochi, Y. Nakamura, H. Kishida, H. Ito, M. Maesato, G. Saito
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246. Spin Frustration in Antiperovskite Systems: $(TTF^{\bullet +}$ or $TSF^{\bullet +})_3[(Mo_6X_{14})^{2-}Y^{-}]$
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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M. Servol, N. Moisan, E. Collet, H. Cailleau, W. Kaszub, L. Toupet, D. Boschetto, T. Ishikawa, A. Moréac, S. Koshihara, M. Maesato, M. Uruichi, X.F. Shao, Y. Nakano, H. Yamochi, G. Saito, M. Lorenc
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244. Formation of $\{Co(dppe)\}_2\{\mu_2\text{–}\eta^2\text{:}\eta^2\text{-}\eta^2\text{:}\eta^2\text{-}[(C_{60})_2]\}$ Dimers Bonded by Two Single C– C Bonds and Two Bridging η^2-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
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243. Anionic coordination complexes of C_{60} and C_{70} 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_{60}^- 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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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 $\{Sn^{IV}Pc(3\text{-})Cl_2\}^{\bullet-}$ 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
J. Porphyrins Phthalocyanines, **18**(24), 1157-1163 (2014) DOI: 10.1142/S1088424614501077

238. Linear Coordination Fullerene C_{60} Polymer $[\{Ni(Me_3P)_2\}(\mu\text{–}\eta^2, \eta^2\text{-}C_{60})]_\infty$ 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 $\{Ni(Ph_3P)\}_2(\mu_2\text{–}\eta^2, \eta^2\text{-}C_{60})_2$ 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 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
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234. Structural and Physical Properties of $(EDO\text{-}TTF\text{-}Cl)_2XF_6$ (X = As, Sb): Geometrical Aspects for Monosubstituted EDO-TTF (EDO-TTF = 4,5-ethylenedioxytetrathiafulvalene)
M. Ishikawa, Y. Nakano, M. Uruichi, A. Otsuka, K. Yakushi, H. Yamochi
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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 $[\{FeCl_{16}Pc\}_2]^{3-}$ Dimers Containing $[Fe^{I}Cl_{16}Pc(2-)]^-$ and diamagnetic $[Fe^{0}Cl_{16}Pc(2-)]^{2-}$
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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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 $(MDABCO^+)(C_{60}^{\bullet-})$ Salt with 3D Close Packing of the $C_{60}^{\bullet-}$ Radical Anions (MDABCO$^+$: N-Methyldiazabicyclooctanium Cation)
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229. Metallic and Mott Insulating Spin-frustrated Antiferromagnetic States in Ionic Fullerene Complexes with a Two-dimensional Hexagonal $C_{60}^{\bullet-}$ 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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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 π-π Stacking Columnar Arrangement. Crystal Structures, Optical, and Magnetic Properties of Salts with the Iron(I) 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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225. Charge-Transfer Solids Using Nucleobases: Supramolecular Architectures Composed of Cytosine and [Ni(dmit)$_2$] Assembled by Multiple Hydrogen Bonds and Heteroatomic Contacts
Y. Yoshida, M. Maesato, M. Ishikawa, Y. Nakano, T. Hiramatsu, H. Yamochi, G. Saito
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224. Molecular Rotors of Coronene in the Charge-Transfer Solids
Y. Yoshida, Y. Shimizu, T. Yajima, G. Maruta, S. Takeda, Y. Nakano, T. Hiramatsu, H. Kageyama, H. Yamochi, G. Saito
Chem. Eur. J., **19**(37), 12313-12324 (2013) DOI: 10.1002/chem.201300578

223. Magnetic Coupling in the Fullerene Dimer {Co(Ph$_3$P)(C$_6$H$_5$CN)}$_2$(μ_2-η^2:η^2-C$_{60}$)$_2$ with Two Zerovalent Cobalt Atoms as Bridges
D.V. Konarev, S.I. Troyanov, Y. Nakano, K.A. Ustimenko, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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222. Structure and Magnetic Properties of the Ionic Fullerene Salt (TMP$^+$)·(C$_{60}^{\bullet-}$)·C$_6$H$_5$CN Containing Layers of Monomeric C$_{60}^{\bullet-}$ Radical Anions
D.V. Konarev, A.V. Kuzmin, S.S. Khasanov, M. Ishikawa, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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D.V. Konarev, S.I. Troyanov, S.S. Khasanov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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D.V. Konarev, L.V. Zorina, S.S. Khasanov, A.L. Litvinov, A. Otsuka, H. Yamochi, G. Saito, R.N. Lyubovskaya
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