

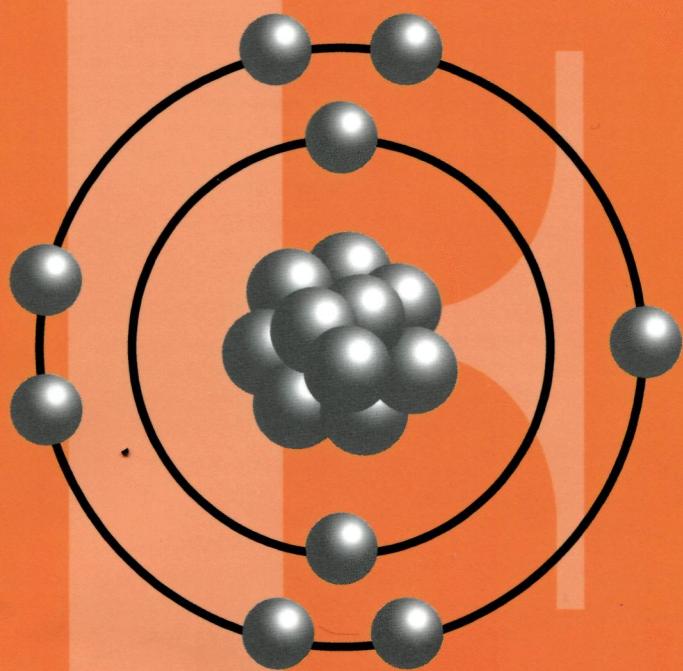
ПИ  
У80/Рс



Volume 156, December 2013

ISSN 0022-1139

# JOURNAL OF FLUORINE CHEMISTRY



*J. Fluorine Chem.*

Available online at [www.sciencedirect.com](http://www.sciencedirect.com)

**ScienceDirect**

Synthesis and insecticidal activity of novel dihalopropene derivatives containing benzoxazole moiety: A structure-activity relationship study A. Guan, Y. Qin, J. Wang and B. Li .....	120
Crystal structures and stability of $\text{LiCeF}_5$ and $\text{LiThF}_5$ at high pressures: A comparative study of the coordination around the $\text{Ce}^{4+}$ and $\text{Th}^{4+}$ ions A. Grzechnik, C.C. Underwood, J.W. Kolis and K. Friese .....	124
Co(salen)-mediated enantioselective radiofluorination of epoxides. Radiosynthesis of enantiomerically enriched [ $^{18}\text{F}$ ]-MISO via kinetic resolution E. Revunov and F. Zhuravlev .....	130
Effects of carbon-chain length of trifluoroacetate co-solvents for lithium-ion battery electrolytes using at low temperature W. Lu, K. Xie, Y. Pan, Z.-x. Chen and C.-m. Zheng .....	136
Highly stereoselective approach to 3-fluoroalkylated ( <i>E</i> )-hex-3-ene-1,5-diyne derivatives <i>via</i> an addition-elimination reaction T. Konno, M. Kishi, T. Ishihara and S. Yamada .....	144
Quaternary ammonium ionic liquids containing fluorous ponytails: Competitive alkylation and elimination reactions of $\text{I}(\text{CH}_2)_n\text{R}_f$ ( $n = 2, 3$ ) with tertiary amines H.B. Alhanash and A.K. Brisdon .....	152
Studies on the superhydrophobic properties of polypropylene/polydimethylsiloxane/graphite fluoride composites H.-M. He, L. Gao, X.-J. Yang, W.-h. Guo, H. Li, T. Xie, S.-K. Yang, J.-P. Wang, Y. Zhang and X.-Y. Yang .....	158
Microwave-assisted synthesis of substituted fluorophenyl mono- and diazides by $\text{S}_{\text{N}}\text{Ar}$ . A fast methodology to prepare photoaffinity labeling and crosslinking reagents E. Leyva, S. Leyva, E. Moctezuma, R.M. González-Balderas and D. de Loera .....	164
Copper-mediated trifluoromethylation of 5-iodotriazole with (trifluoromethyl)trimethylsilane promoted by silver carbonate D. Fu, J. Zhang and S. Cao .....	170
Citric acid-assisted phase controlled synthesis of $\text{NaYF}_4:\text{Yb}^{3+}, \text{Tm}^{3+}$ crystals and their intense ultraviolet upconversion emissions T. Jiang, W. Qin and J. Zhou .....	177
Fluorous chiral bis(oxazolines): Synthesis and application in asymmetric Henry reaction T. Deng and C. Cai .....	183
Solid-state red emission of boron-fluorine complexes with extended $\pi$ -conjugated structure L. Yao, F. Dan, W. Liu, Q. Cao, C. Yang, K. Zou and S. Xiao .....	187
Nucleophilic trifluoromethylation of aziridinyl ketones: A convenient access to fluorinated aziridinyl alcohols G. Miastoń, E. Obijalska, P. Ziębacz, K. Matyszewski, K. Urbaniak, A. Linden and H. Heimgartner .....	192
Synthesis and characterization of copolymers of perfluoro(2-methylene-4,5-dimethyl-1,3-dioxolane) and perfluoro(2-methylene-1,3-dioxolane) K. Koike, F. Mikeš, H. Zhang, Y. Koike and Y. Okamoto .....	198
<i>N</i> -Hydroxycinnamoyl amides of fluorinated amino acids: Synthesis, anti-tyrosinase and DPPH scavenging activities M. Chochkova, B. Stoykova, G. Ivanova, A. Ranz, X. Guo, E. Lankmayr and T. Milkova .....	203
Enhanced photocatalytic, antimicrobial activity and photovoltaic characteristics of fluorine doped $\text{TiO}_2$ synthesized under ultrasound irradiation M. Umadevi, M. Sangari, R. Parimaladevi, A. Sivanantham and J. Mayandi .....	209
<i>Ortho</i> -hydrodefluorination of polyfluorinated 4-acetamidobiphenyls and synthesis of polyfluorinated 6-phenylquinolines L.Yu. Gurskaya and V.D. Shteingarts .....	214
Suppression of thermal quenching of fluorescence from rhodamine dyes attached to silylated magadiite containing perfluoroalkyl groups Y. Matsuo and T. Takamatsu .....	220
Analysis of zero-field splitting (ZFS) and local distortion of $\text{Cr}^{3+}$ ions doped into fluoroelpasolite ( $\text{Cs}_2\text{NaGaF}_6$ and $\text{Cs}_2\text{NaAlF}_6$ ) crystals M. Açıkgöz .....	224
Synthesis and characterization of liquid crystalline azobenzene chromophores with fluorobenzene terminal M.L. Rahman, G. Hegde, M. Azazpour, M.M. Yusoff and S. Kumar .....	230
A colorimetric chemosensor for fluoride ions based on an indigo derivative S. Wang, Y. Zhao, C. Zhao, L. Liu and S. Yu .....	236
Synthesis and crystal structures of $(\text{pyH})_2[\text{Mo}_2\text{O}_4\text{F}_6]$ and $(\text{pipH}_2)[\text{Mo}_2\text{O}_4\text{F}_6]$ ; vibrational band assignment for $[\text{Mo}_2\text{O}_4\text{F}_6]^{2-}$ anion G. Veryasov, D. Morozov, E. Goreshnik and A. Jesih .....	240

Characteristics of the structure and properties of low-temperature fractions recovered from the powder ultradispersed polytetrafluoroethylene by sublimation L.N. Ignatieva, O.M. Gorbenko, V.G. Kuryavyi, N.N. Savchenko, A.D. Pavlov, D.V. Mashtalyar and V.M. Bouznik .....	246
Asymmetric fluorodinitromethyl derivatives of 2,2,2-trinitroethyl N-(2,2,2-trinitroethyl)carbamate T.M. Klapötke, B. Krumm, R. Moll, S.F. Rest, W. Schnick and M. Seibald .....	253
Reaction of hexafluorothioacetone dimer with azoles. Practical synthesis of <i>N</i> -(hexafluoro- <i>iso</i> -propyl)azoles V.A. Petrov and W. Marshall .....	262
Synthesis and characterization of novel 2-fluoro/chloro-3-pyridyl selenides: X-ray crystal structure of <i>bis</i> (2-fluoro-3-pyridyl)diselenide and <i>bis</i> (2-fluoro-3-pyridylseleno) methane S.G.(nee Doomra) and K.K. Bhasin .....	268
Fluorination of 4-alkyl-substituted phenols and aromatic ethers with fluoroxy and N-F reagents: Cesium fluoroxyulfate and <i>N</i> -fluoro-1,4-diazonia-bicyclo[2.2.2]octane dication salts case I. Pravst and S. Stavber .....	276
An eco-compatible synthesis of medicinally important novel class of trispiroheterocyclic framework using 2,2,2-trifluoroethanol as a reusable medium A. Dandia, R. Singh, J. Joshi and S. Kumari .....	283
Synthesis of potassium 4-(1-azol-1-yl)-2,3,5,6-tetrafluorophenyltrifluoroborates from $K[C_6F_5BF_3]$ and alkali metal azol-1-ides. The dramatic distinction in nucleophilicity of alkali metal azol-1-ides and dialkylamides A.Yu. Shabalin, N.Yu. Adonin, V.V. Bardin, O.P. Taran, A.B. Ayusheev and V.N. Parmon .....	290
Synthesis, crystal structure, and properties of sodium heptafluorodiantimonate(III) hydrate ( $NaSb_2F_7 \cdot H_2O$ ) L.A. Zemnukhova, A.A. Udovenko, N.V. Makarenko, G.A. Fedorishcheva, V.Ya. Kavun, A.B. Slobodyuk and N.A. Didenko ....	298
Triazidation of 2,4,6-trifluorobenzenes S.V. Chapyshev and A.V. Chernyak .....	303
Development of (2-bromo-1,1,2,2-tetrafluoroethyl)(phenyl)sulfane as tetrafluoroethyl-radical and tetrafluoroethylene-diradical synthons for additions to alkenes Y. Chernykh and P. Beier .....	307
The stepped reaction of decafluorobiphenyl with thiophenol studied by <i>in situ</i> $^{19}F$ NMR spectroscopy C. Langner, J. Meier-Haack, B. Voit and H. Komber .....	314
Thermolysis of trifluoromethyl-containing vinyldiazocarbonyl compounds and X-ray crystal structure analysis of unexpected reaction products V.A. Nikolaev, M.B. Supurgibekov, R. Haiges, A. Linden and G.K.S. Prakash .....	322
3,4-Difluoropyrrole-, 3,3,4,4-tetrafluoropyrrolidine- and pyrrolidine-based liquid crystals P. Liu, H. Chen, S. Daniel, D. Hang, L. Zhao, H. Wang and Z. Zeng .....	327
Thermal decomposition of 4-fluorobenzenediazonium perfluoroorganyl(fluoro)borates, $[4-FC_6H_4N_2]Y$ ( $Y = R_FBF_3$ ( $R_F = C_6F_5, C_6F_{13}$ ), <i>trans</i> - $C_4F_9CF=CF$ , <i>cis</i> - $C_6F_{13}CF=CF$ , $CF_3C\equiv C$ ) and $(C_6F_{13})_2BF_2$ ) V.V. Bardin and H.-J. Frohn .....	333
Investigating local structure of $Fe^{3+}$ ion doped into fluoroelpasolite crystals studied by EMR M. Açıkgöz .....	339
<b>Short Communications</b>	
Base-induced instability of fluorotelomer alcohols W.B. Tucker and S. Mecozzi .....	26
Preparation and luminescent properties of cubic potassium-erbium fluoride nanoparticles V. Bartůnek, J. Rak, B. Peláňková, Z. Sofer, P. Ulbrich, M. Kuchař and V. Král .....	363
Organocatalysis approach to trifluoromethylation with fluoroform Y. Zhang, M. Fujii, H. Serizawa and K. Mikami .....	367
Obtention of enantiomerically pure 5,5,5-trifluoro- $L$ -isoleucine and 5,5,5-trifluoro- $L$ -alloisoleucine H. Biava and N. Budisa .....	372
Evidence for the unimolecular decomposition of $CF_3OCF_3$ to $COF_2$ and $CF_4$ by high energy irradiation R.J. Waltman .....	378