

CARBORANE AND CARBORANE-RELATED PUBLICATIONS APPEARING IN 2021

CARBORANES

o-Carborane

Recent Advances in Gold(III) Chemistry: Structure, Bonding, Reactivity, and Role in Homogeneous Catalysis

Luca Rocchigiani* and Manfred Bochmann*, *Chem. Rev.* **2021**, *121*, 8464

The in Situ NHC-Palladium Catalyzed Selective Activation of B(3)-H or B(6)-H Bonds of *o*-Carboranes for Hydroboration of Alkynes: An Efficient Approach to Alkenyl-*o*-carboranes

Ke Cao*, Tao-Tao Xu, Ji Wu, Cai-Yan Zhang, Xin-Yu Wen, and Junxiao Yang, *Inorg. Chem.* **2021**, *60*, 1081

Iridium-Catalyzed Cage B(4)-Amidation Reaction of *o*-Carboranes with Dioxazolones: Selective Synthesis of Amidated *o*-Carboranes and Amidated and Methoxycarbonylated nido-Carboranes

Gi Uk Han, Yonghyeon Baek, Kyungsup Lee, Seohyun Shin, Hee Chan Noh, and Phil Ho Lee*, *Organic Letters* **2021**, *23*, 416

Highly Deformed *o*-Carborane Functionalised Non-linear Polycyclic Aromatics with Exceptionally Long C-C Bonds

Marsh, Adam V.; Little, Mark; Cheetham, Nathan J.; et al., *Chem Eur. J.* **2021**, *27*, 1970

Synthesis and Optoelectronic Properties of Cationic Iridium(III) Complexes with *o*-Carborane-Based 2-Phenyl Benzothiazole Ligands

Zi-Jian Yao*, Yong-Xu Jin, Wei Deng, and Zhen-Jiang Liu*, *Inorg. Chem.* **2021**, *60*, 2756

Regioselective B-H/C-H Bond Activation at Azo-Substituted Carboranes Induced by Half-Sandwich Iridium(III) Complex

Cui, Peng-Fei; Gao, Yang; Guo, Shu-Ting; et al., *Chinese J. Chem.* **2021**, *39*, 287

Rh-Catalyzed Decarbonylative Cross-Coupling between *o*-Carboranes and Twisted Amides: A Regioselective, Additive-Free, and Concise Late-Stage Carboranylation

Li, Chun-Xiao; Ning, Qian; Zhao, Wenxuan; et al., *Chem. Eur. J.* **2021**, *27*, 2699

Catalytic Cage BH Functionalization of Carboranes via "Cage Walking" Strategy

Chenyang Guo, Zaozao Qiu, and Zuowei Xie* *ACS Catalysis* **2021**, *11*, 2134

Selective B(5,8,9)-Triarylation Reaction of *o*-Carboranes through Determination of the Order of Introduction of Aryl Groups into B(4)-Acylamino-*o*-carboranes

Yonghyeon Baek, Kiun Cheong, Dongwook Kim, and Phil Ho Lee*, *Org. Lett.* **2021**, *23*, 1188

Main Avenues in Gold Coordination Chemistry

Raquel P. Herrera and M. Concepción Gimeno*, *Chem. Rev.* **2021**, *121*, 8311

Carboranealkynyl-Protected Gold Nanoclusters: Size Conversion and UV/Vis-NIR Optical Properties

Wang, Jie; Wang, Zhao-Yang; Li, Shi-Jun; et al., *Angew. Chem. Int. Ed.* **2021**, *60*, 5959

Exploration of Bis(nickelation) of 1,1'-Bis(*o*-carborane)

Mandal, Dipendu; Rosair, Georgina M., *Crystals* **2021**, *11*, Article number 16

Noncatalytic Bromination of Icosahedral Dicarboranes: The Key Role of Anionic Bromine Clusters Facilitating Br Atom Insertion into the B-H σ -Bond

Andrey V. Shernyukov, George E. Salnikov, Dmitry A. Rudakov, and Alexander M. Genaev*, *Inorg. Chem.* **2021**, *60*, 3106

Tri-insertion with dearomatization of terminal arylalkynes using a carborane based frustrated Lewis pair template

Zhang, Jian; Xie, Zuowei, *Chem. Sci.* **2021**, *12*, 1745

Ir-Catalyzed Selective B(3)-H Amination of *o*-Carboranes with NH₃

Yik Ki Au, Jie Zhang, Yangjian Quan*, and Zuowei Xie*, *J. Am. Chem. Soc.* **2021**, *143*, 4148

Pd-Catalyzed sequential B(3)-I/B(4)-H bond activation for the synthesis of 3,4-benzo-*o*-carboranes

Ge, Yixiu; Zhang, Jie; Qiu, Zaozao; et al., *Dalton Trans.* **2021**, *50*, 1766

Tuning the Liquid Crystallinity of Cholesteryl-*o*-Carborane Dyads: Synthesis, Structure, Photoluminescence, and Mesomorphic Properties

Ferrer-Ugalde, Albert; Gonzalez-Campo, Arantzazu; Planas, Jose Giner; et al., *Crystals* **2021**, *11*, Article number 133

Synthesis of B-silylmethyl substituted *o*- and *m*-carboranes

Izmaylov, Boris A.; Vasnev, Valerii A.; Markova, Galy D, *Mendeleev Commun.* **2021**, *31*, 130

Palladium catalyzed selective B(3)-H arylation of *o*-carboranes with arylboronic acids at room temperature

Yang, Ziyi; Wu, Yuanbo; Fu, Yatong; et al., *Chem. Commun.* **2021**, *57*, 1655

Exceptionally Long Covalent CC Bonds-A Local Vibrational Mode Study

Delgado, Alexis Antoinette Ann; Humason, Alan; Kalescky, Robert; et al., *Molecules* **2021**, *26*, Article number 950

Regioselective B(3)-H bond activation based on an *o*-carboranyl dithiocarboxylate ligand and its derivatives

Yuan, Run-Ze; Cui, Peng-Fei; Guo, Shu-Ting; et al., *Dalton Trans.* **2021**, *50*, 1060

Impact of the Electronic Environment in Carbazole-Appended *o*-Carboranyl Compounds on the Intramolecular-Charge-Transfer-Based Radiative Decay Efficiency

Seok Ho Lee, Min Sik Mun, Ji Hye Lee, Sehee Im, Wonchul Lee, Hyonseok Hwang, and Kang Mun Lee*, *Organometallics* **2021**, *40*, 959

Ene Reaction of *o*-Carboryne with Alkynes and Alkenes at Room Temperature: Synthesis of *o*-Carboranyl Allenes and Alkenes

Jie Zhang and Zuowei Xie*, *Organic Letters* **2021**, *23*, 2971

Impact of deboronation on the electronic characteristics of *closo-o*-carborane: intriguing photophysical changes in triazole-appended carboranyl luminophores

Kim, Mingi; Im, Sehee; Ryu, Chan Hee; et al., *Dalton Trans.* **2021**, *50*, 3207

Synthesis and crystal structures of nickel(II) and palladium(II) complexes with *o*-carboranyl amidine ligands

Stogniy, Marina Yu.; Erokhina, Svetlana A.; Suponitsky, Kirill. Yu.; et al., *Dalton Trans.* **2021**, *50*, 4967

Transition metal-mediated B(4)-H hydroxylation/halogenation of *o*-carboranes bearing a 2-pyridylsulfenyl ligand

Guo, Shu-Ting; Cui, Peng-Fei; Yuan, Run-Ze; et al., *Chem. Commun.* **2021**, *57*, 2412

Synthesis of Bis(Carboranyl)amides 1,1'- μ -(CH₂NH(O)C(CH₂)_n-1,2-C₂B₁₀H₁₁)₂ (n = 0, 1) and Attempt of Synthesis of Gadolinium Bis(Dicarbollide)

Asawa, Yasunobu; Arsent'eva, Aleksandra V.; Anufriev, Sergey A.; et al., *Molecules* **2021**, *26*, Article number 1321

New Types of Ge₂ and Ge₄ Assemblies Stabilized by a Carbanionic Dicarborandiyl-Silylene Ligand

Yun Xiong, Dandan Chen, Shenglai Yao, Jun Zhu, Ales Ruzicka, and Matthias Driess*, *J. Am. Chem. Soc.* **2021**, *143*, 6229

Synthesis of a novel planar-chiral *nido*-carborane amino acid

Telegina, A. A.; Gruzdev, D. A.; Levit, G. L.; et al., *Russ. Chem. Bull.* **2021**, *70*, 539

Recent Advances in Transition Metal-Catalyzed Selective B-H Functionalization of *o*-Carboranes

Au, Yik Ki; Xie, Zuowei, *Bull. Chem. Soc. Japan* **2021**, *94*, 879

Fe-Catalyzed Intramolecular B-H/C-H Dehydrogenative Coupling: Synthesis of Carborane-Fused Nitrogen Heterocycles

Yu Chen, Hairong Lyu, Yangjian Quan, and Zuowei Xie*, *Org. Lett.* **2021**, *23*, 4163

Synthesis, Characterization, and Density Functional Theory Studies of Three-Dimensional Inorganic Analogues of 9,10-Diboraanthracene—A New Class of Lewis Superacids

Chonghe Zhang, Junyi Wang, Wei Su, Zhenyang Lin*, and Qing Ye*, *J. Am. Chem. Soc.* **2021**, *143*, 8552

Transition metal complexes with carboranylphosphine ligands

Sivaev, Igor B.; Stogniy, Marina Yu; Bregadze, Vladimir, I, *Coord. Chem. Rev.* **2021**, *436*, Article number 213795

Synthesis and Structure of an *o*-Carboranyl-Substituted Three-Coordinate Borane Radical Anion

Krebs, Johannes; Haehnel, Martin; Krummenacher, Ivo; et al., *Chem. Eur. J.* **2021**, *27*, 8159

Synthesis and photophysical properties of a new tetraphenylethylene-*o*-carborane-based star-shaped molecule

Li, Xiang; Zhou, Qin; Zhu, Miao; et al., *New J. Chem.* **2021**, *45*, 7496

1,12-Diiodo-*Ortho*-Carborane: A Classic Textbook Example of the Dihalogen Bond

Suponitsky, Kyrill Yu.; Anisimov, Alexei A.; Anufriev, Sergey A.; et al., *Crystals* **2021**, *11*, Article number 396

A "flexible" carborane-cored luminogen: variable emission behaviours in aggregates

Li, Jiabin; Xu, Jinkai; Yan, Linbo; et al., *Dalton Trans.* **2021**, *50*, 8029

Theoretical Simulations of Thermochromic and Aggregation-Induced Emission Behaviors of a Series of Red-Light Anthracene-*o*-carborane Derivatives

Duan, Ying-Chen; Pan, Qing-Qing; Zhao, Zhi-Wen; et al., *Chem. Eur. J.* **2021**, *27*, 9571

Changing the Reactivity of Zero- and Mono-Valent Germanium with a Redox Non-Innocent Bis(silylenyl)carborane Ligand

Yao, Shenglai; Kostenko, Arseni; Xiong, Yun; et al., *Angew. Chem. Int. Ed.* **2021**, *60*, 14864

Tandem [4+2]/[2+2] cycloaddition of *o*-carboryne with enynes: facile construction of carborane-fused tricyclics

Zhang, Jie; Xie, Zuowei, *Chem. Sci.* **2021**, *12*, 5616

Tuning the architectures and luminescence properties of Cu(I) compounds of phenyl and carboranyl pyrazoles: the impact of 2D versus 3D aromatic moieties in the ligand backbone

Soldevila-Sanmartin, Joan; Ruiz, Eliseo; Choquesillo-Lazarte, Duane; et al., *J. Mater. Chem. C* **2021**, *9*, 7643

Carborane Stabilized "19-Electron" Molybdenum Metalloradical

Kuldeep Jaiswal, Naveen Malik, Boris Tumanskii*, Gabriel Ménard, and Roman Dobrovetsky*, *J. Am. Chem. Soc.* **2021**, *143*, 9842

Iron(III)-catalyzed aerobic oxidation for the synthesis of 1-benzoxazolyl-*o*-carboranes

Wu, Ji; Cao, Ke; Zhang, Cai-Yan; et al., *J. Organomet. Chem.* **2021**, *945*, Article number 121881

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Ol'shevskaya, Valentina A.; Alpatova, Victoria M.; Makarenkov, Anton V.; et al., *New J. Chem.* **2021**, *45*, 12159

Synthesis, Structure, and Reactivity of Acid-Free Neutral Oxoborane

Wang, HQ; Zhang, J; (...); Xie, ZW, *Angew. Chem. Int. Ed.* **2021**, *60*, 19008

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Zelinskii, GE; Limarev, IP; (...); Voloshin, YZ, *Molecules* **2021**, *26*, 3635

Theoretical calculation of regioselectivity and solvation effects on B-H activation of *o*-carborane guided by directing group

Hui Li, * Wanyong Tanga and Zifan Maa, *Dalton Trans.* **2021**, *50*, 10291

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Qin Zhou, a Miao Zhu, Wei Chen, Na Qin, Yujie Liu, Weihua Zhang, Xiang Li, * Ye Sha and Hong Yan *, *New J. Chem.* **2021**, *45*, 12830

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1,3,7-Triazapyrene-Based *ortho*-Carborane Fluorophores: Convenient Synthesis, Theoretical Studies, and Aggregation-Induced Emission Properties

Lidia A. Smyshliaeva, Mikhail V. Varaksin,* Ekaterina I. Fomina, Margarita V. Medvedeva, Tatiana S. Svalova, Alisa N. Kozitsina, Oleg P. Demidov, Ivan V. Borovlev, Carl Mensch, Pieter Mampuy, Bert U. W. Maes, Valery N. Charushin, and Oleg N. Chupakhin*, *Organometallics* **2021**, *40*, 2792

Pd-catalyzed selective tetrafunctionalization of diiodo-*o*-carboranes

Yixiu Ge, Zaozao Qiu, and Zuowei Xie, *Chem. Commun.* **2021**, *57*, 8071

Synthesis of a carborane-substituted bis(phosphanido) cobaltate(I), ligand substitution, and unusual P₄ fragmentation

Peter Coburger, Julia Leitl, Daniel J. Scott, Gabriele Hierlmeier, Ilya G. Shenderovich, Evamarie Hey-Hawkins, and Robert Wolf

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Variable-Metric Localization of Occupied and Virtual Orbitals

Ziling Luo and Rustam Z. Khaliullin, *J. Chem. Theory Computation* **2021**, *17*, 5568

Reactivity of Half-Sandwich 16e Carborane Compound Cp*CoS₂C₂B₁₀H₁₀ with Phosphorous Compounds

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Chong Li, Matthew P. Aldred, Rachel A. Harder, Ying Chen, Dmitry S. Yufit, Ming-Qiang Zhu, and Mark A. Fox, *Chem. Comm.* **2021**, *57*, 9466

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Long Yang, Becky Bongsuiru Jei, Alexej Scheremetjew, Binbin Yuan, A. Claudia Stuckl, and Lutz Ackermann, *Chem. Sci.* **2021**, *12*, 12971

Ring-opening and ring-expansion reactions of carborane-fused borirane

Hanqiang Wang,^a Jie Zhang^a and Zuowei Xie, *Chem. Sci.* **2021**, *12*, 13187

Direct and Regioselective Palladium(II)-Catalyzed B(4)-H Monoacyloxylation and B(4,5)-H Diacetoxylation of *o*-Carborane Acids with Phenyliodonium Dicarboxylates

Hyeongcheol Ham, Seohyun Shin, Gi Hoon Ko, Sang Hoon Han, Gi Uk Han, Chanyoung Maeng, Tae Hyeon Kim, Hee Chan Noh, Kyungsup Lee, Hanjoong Kim, Heejin Yang, and Phil Ho Lee, *J. Org. Chem.* **2021**, *86*, 15153

Functional Group Directed B-H Activation of Polyhedral Boron Hydrides by Transition Metal Complexes

Sivaev, I. B., *Russ. J. Inorg. Chem.* **2021**, *66*, 1289 (review)

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A Strategy for Selective Catalytic B-H Functionalization of *o*-Carboranes

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Synthesis of carborane-containing carbonates via CO₂ addition to epoxides

Sergey E. Lyubimov, Valentina A. Olshevskaya, Andrei V. Zaitsev, Alexander A. Korlyukov, Anastasia A. Zvinchuk, Polina V. Cherkasova, Biswajit Chowdhury, *Polyhedron* **2021**, *208*, 115418

Synthesis and Reactivity of Carboranylsilylene Stabilized Boranes: Construction of Carborane-Fused Silaboracycles

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Variable Metal Chelation Modes and Activation Sequence in Pd-Catalyzed B-H Poly-arylation of Carboranes

Hou-ji Cao, Meng Chen, Fangxiang Sun, Yue Zhao, Changsheng Lu, Xiaolei Zhang,* Zhuangzhi Shi,* and Hong Yan, *ACS Catal.* **2021**, *11*, 14047

Naphthyl- and Quinoline-Appended *o*-Carboranyl Luminophores: Intramolecular Charge Transfer-Based Radiative Decay Controlled by Structural Geometry around C-C Bond Axis

Chan Hee Ryu, Seok Ho Lee, Sanghee Yi, Ju Hyun Hong, Sehee Im, and Kang Mun Lee*, *Eur. J. Inorg. Chem.* **2021**, 4875

Closo- or Nido-Carborane Diphosphane as Responsible for Strong Thermochromism or Time Activated Delayed Fluorescence (TADF) in [Cu(N[^]N)(P[^]P)]^{0/+}

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Intermolecular Cyclization between Carboranylphosphines and Electron-Deficient Alkynes

Guanyu Tao, Mengyang Bai, Zhenxing Liu, and Zheng Duan, *Organometallics* **2021**, *40*, 4041

Metal-catalyzed B–H acylmethylation of pyridylcarboranes: access to carborane-fused indoliziniums and quinoliziniums†

Hou-Ji Cao, Xing Wei, Fangxiang Sun, Xiaolei Zhang,* Changsheng Lu* and Hong Yan, *Chem. Sci.* **2021**, *12*, 15563

C,C'-Ru to C,B'-Ru isomerisation in bis(phosphine)Ru complexes of [1,10-bis(ortho-carborane)]

Rebekah J. Jeans, Georgina M. Rosair and Alan J. Welch, *Chem. Commun.* **2021**, *58*, 64

Ir-catalyzed enantioselective B–H alkenylation for asymmetric synthesis of chiral-at-cage o-carboranes

Ruofei Cheng, Jie Zhang, Huifang Zhang, Zaozao Qiu, and Zuowei Xie, *Nature Commun.* **2021**, *12*, 7146

Synthesis of 3-Aryl-ortho-carboranes with Sensitive Functional Groups

Sergey A. Anufriev , Akim V. Shmal'ko, Kyrill Yu. Suponitsky and Igor B. Sivaev, *Molecules* **2021**, *26*, 729

m-Carborane

Catalytic Cage BH Functionalization of Carboranes via “Cage Walking” Strategy

Chenyang Guo, Zaozao Qiu, and Zuowei Xie* *ACS Catalysis* **2021**, *11*, 2134

Spectral Clustering to Analyze the Hidden Events in Single-Molecule Break Junctions

Luchun Lin, Chun Tang, Gang Dong, Zhixin Chen, Zhichao Pan, Junyang Liu*, Yang Yang, Jia Shi, Rongrong Ji*, and Wenjing Hong*, *J. Phys. Chem. C* **2021**, *125*, 3623

Noncatalytic Bromination of Icosahedral Dicarboranes: The Key Role of Anionic Bromine Clusters Facilitating Br Atom Insertion into the B–H σ -Bond

Andrey V. Shernyukov, George E. Salnikov, Dmitry A. Rudakov, and Alexander M. Genaev*, *Inorg. Chem.* **2021**, *60*, 3106

Spectral Clustering to Analyze the Hidden Events in Single-Molecule Break Junctions

Lin, Luchun; Tang, Chun; Dong, Gang; et al., *J. Phys. Chem. C* **2021**, *125*, 3623

Bis(CBT)palladium(II) Derivatives (CBT = m-carborane-1-thiolate): Synthesis, Molecular Structure, and Physicochemical Properties of cis-[(bipy)Pd(CBT)₂] and trans-[(py)₂Pd(CBT)₂]

Noemi Bellucci, Maria Pia Donzello*, Mario Amati*, Elisa Viola, Corrado Rizzoli*, Claudio Ercolani, Giampaolo Ricciardi, and Angela Rosa, *Inorg. Chem.* **2021**, *60*, 10478

Homo/Heteropentannuclear Porphyrazine MgII, ZnII, and PdII Macrocycles with Externally Pending PdCl₂ and Pd(CBT)₂ Units: Synthesis, Physicochemical Characterization, and Photoactivity Studies

Noemi Bellucci, Maria Pia Donzello,* Elisa Viola, and Claudio Ercolani, *Inorg. Chem.* **2021**, *60*, 12029

Metalation of Bis(meta-carborane)

Rebekah J. Jeans, Antony P.Y. Chan, Ashton H. Murrell, Heather A. Chouman, Georgina M. Rosair, and Alan J. Welch, *J. Organomet. Chem.* **2021**, Article number 121980

Functional Group Directed B-H Activation of Polyhedral Boron Hydrides by Transition Metal Complexes

Sivaev, I. B., *Russ. J. Inorg. Chem.* **2021**, *66*, 1289 (review)

Bimetallic Ru–Pd and Trimetallic Ru–Pd–Cu Assemblies on the Carborane Cluster Surface

Bennett J. Eleazer, H. D. A. Chathumal Jayaweera, Gayathri B. Gange, Mark D. Smith, Corey R. Martin, Kyoung Chul Park, Alexey A. Popov,* and Dmitry V. Peryshkov, *Inorg. Chem.* **2021**, *60*, 16911

Variable Metal Chelation Modes and Activation Sequence in Pd-Catalyzed B–H Poly-arylation of Carboranes

Hou-ji Cao, Meng Chen, Fangxiang Sun, Yue Zhao, Changsheng Lu, Xiaolei Zhang,* Zhuangzhi Shi,* and Hong Yan, *ACS Catal.* **2021**, *11*, 14047

Icosahedral m-Carboranes Containing Exopolyhedral B–Se and B–Te Bonds

***p*-Carborane**

Steric-Effects-Directed B–H Bond Activation of *para*-Carboranes

Peng-Fei Cui, Xin-Ran Liu, Shu-Ting Guo, Yue-Jian Lin, and Guo-Xin Jin*, *J. Am. Chem. Soc.* **2021**, *143*, 5099

Synthesis and evaluation of adenosine derivatives as A1, A2A, A2B and A3 adenosine receptor ligands containing boroclusters as phenyl isosteres and selective A3 agonists

Katarzyna Bednarska-Szczepaniak, Adam Mieczkowski, Aleksandra Kierozalska, Dijana Pavlovic Saftic, Konrad Głabala, Tomasz Przygodzk, Lidia Stanczyk, Kamil Karolczak, Cezary Watała, Harsha Rao, Zhan-Guo Gao Kenneth A. Jacobson, Zbigniew J. Lesnikowski, *Eur. J. Med. Chem.* **2021**, *223*, 113607

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***Closo*-CB₁₁H₁₂[−] Derivatives**

Intramolecular Halo Stabilization of Silyl Cations-Silylated Halonium- and Bis-Halo-Substituted Siliconium Borates

Merk, Anastasia; Buehrmann, Lukas; Kordts, Natalie; et al., *Chem. Eur. J.* **2021**, *10*, 3496

Highly Efficient Carborane-Based Activators for Molecular Olefin Polymerization Catalysts

S. Olivia Gunther, Qingheng Lai, Todd Senecal, Rafael Huacuja, Sean Bremer, David M. Pearson, Jessica C. DeMott, Nattamai Bhuvanesh, Oleg V. Ozerov*, and Jerzy Klosin*, *ACS Catal.* **2021**, *11*, 3335

Intramolecular Halo Stabilization of Silyl Cations---Silylated Halonium- and Bis-Halo-Substituted Siliconium Borates

Merk, Anastasia; Buehrmann, Lukas; Kordts, Natalie; et al., *Chem. Eur. J.* **2021**, *27*, 3496

Carboranes as Lewis Acids: Tetrel Bonding in CB₁₁H₁₁ Carbonium Ylide

Ferrer, Maxime; Alkorta, Ibon; Elguero, Jose; et al., *Crystals* **2021**, *11*, Article number 391

Modified IR nu NH scale for computational applications

Brzeski, Jakub; Czaplą, Marcin; Skurski, Piotr, *Chem. Phys. Lett.* **2021**, *770*, Article number 138445

Aromaticity in Phenyl Decorated *closo*-Monocarboranes. Planar–Spherical Aggregates Involving 7–12-Vertex Cages

Alvaro Muñoz-Castro*, *J. Phys. Chem. A* **2021**, *125*, 4861

Unsaturated Vinyl-Type Carbocation [(CH₃)₂C=CH]⁺ in Its Carborane Salts

Evgenii S. Stoyanov*, Irina Yu. Bagryanskaya, and Irina V. Stoyanova, *ACS Omega* **2021**, *6*, 15834

Synthesis of *closo*-CB₁₁H₁₂[−] Salts Using Common Laboratory Reagents

Amanda Berger, Craig E. Buckley, and Mark Paskevicius, *Inorg. Chem.* **2021**, *60*, 14744

Isomers of the Allyl Carbocation C₃H₅⁺ in Solid Salts: Infrared Spectra and Structures

Evgenii S. Stoyanov,* Irina Yu. Bagryanskaya, and Irina V. Stoyanova, *ACS Omega* **2021**, *6*, 23691 [CB₁₁H₁₁[−] salts]

Functional Group Directed B-H Activation of Polyhedral Boron Hydrides by Transition Metal Complexes

Sivaev, I. B., *Russ. J. Inorg. Chem.* **2021**, *66*, 1289 (review)

Zinc(II) and Cadmium(II) Coordination Compounds with Boron Cluster Anions: Classification of Compounds Depending on Strength of Metal–Boron Cage Interaction and Analysis of Structures

S. E. Korolenkoa, V. V. Avdeeva, E. A. Malinina, and N. T. Kuznetsov, *Russ. J. Inorg. Chem.* **2021**, *66*, 1350 (review)

Lewis Superacidic Tellurenyl Cation-Induced Electrophilic Activation of an Inert Carborane

Martin Hejda, Daniel Duvinage, Enno Lork, Antonín Lyčka, Zdeněk Černošek, Jan Macháček, Sergey Makarov, Sergey Ketkov, Stefan Mebs, Libor Dostál, Jens Beckmann, *Chem. Eur. J.* **2021**, *27*, 14577

Carborane as an Alternative Efficient Hydrophobic Tag for Protein Degradation

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