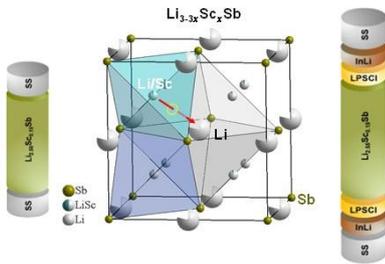
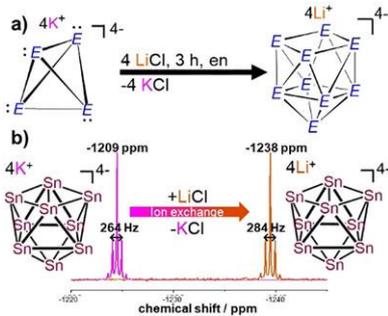


Publikationsliste Prof. T. F. Fässler (2019-2025)



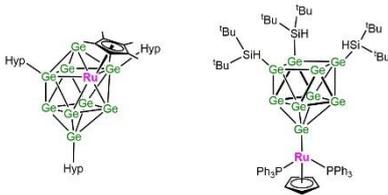
Scandium Induced Structural Disorder and Vacancy Engineering in Li_3Sb – Superior Ionic Conductivity in $\text{Li}_{3-3x}\text{Sc}_x\text{Sb}$

J. Jiang, T. Kutsch, W. Klein, M. Botta, A. Senyshyn, R. J. Spranger, V. Baran, L. van Wüllen, H. A. Gasteiger, T. F. Fässler
Adv. Energy Mater. (2025) 2500683.
 DOI: [10.1002/aenm.202500683](https://doi.org/10.1002/aenm.202500683)



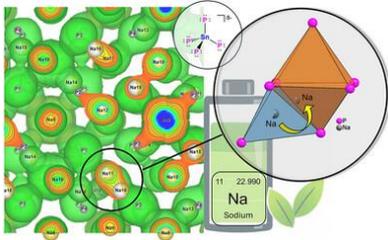
The Role of Lithium Ions on the Solubility of K_4E_4 in Ethylenediamine and the Oxidation of the Zintl Anions $[\text{E}_4]^{4-}$ ($\text{E} = \text{Ge}, \text{Sn}, \text{Pb}$) as well as $[\text{Ge}_9]^{4-}$

C. E. Fajman, D. M. Dankert, W. Klein, T. F. Fässler
Chem. Eur. J. (2025): e202500592.
 DOI: [10.1002/chem.202500592](https://doi.org/10.1002/chem.202500592)



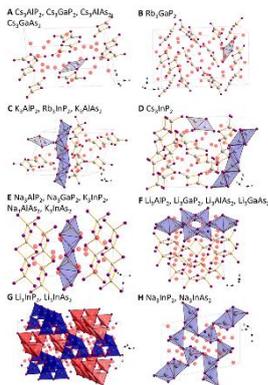
Ruthenium Decorated Tris-Silylated Germanium Zintl Clusters Featuring an Unexpected Ligand Arrangement

N. S. Willeit, V. Hlukhyy, T. F. Fässler
Molecules 2025, 30(6), 1247
 DOI: [10.3390/molecules30061247](https://doi.org/10.3390/molecules30061247)



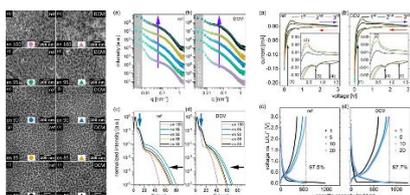
Fast Sodium Ion Conductivity in Pristine Na_8SnP_4 : Synthesis, Structure and Properties of the Two Polymorphs $\text{LT-Na}_8\text{SnP}_4$ and $\text{HT-Na}_8\text{SnP}_4$

M. Botta, S. Merk, R. J. Spranger, A. Senyshyn, V. Baran, V. Dyadkin, L. van Wüllen, T. F. Fässler
Angew. Chem. (2025) e202419381
 DOI: [10.1002/ange.202419381](https://doi.org/10.1002/ange.202419381)



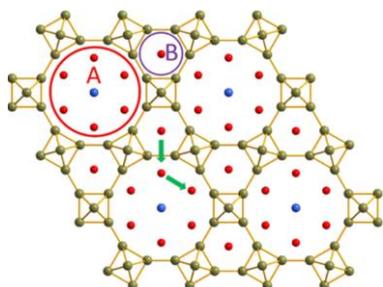
Large Number of Direct or Pseudo-Direct Band Gap Semiconductors among A_3TrPn_2 Compounds with $\text{A} = \text{Li}, \text{Na}, \text{K}, \text{Rb}, \text{Cs}$; $\text{Tr} = \text{Al}, \text{Ga}, \text{In}$; $\text{Pn} = \text{P}, \text{As}$

S. Zeitz, Y. Kuznetsova, T. F. Fässler
Molecules 2024, 29(17), 4087
 DOI: [10.3390/molecules29174087](https://doi.org/10.3390/molecules29174087)



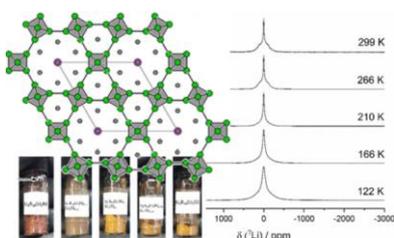
Toluene-mediated morphology tuning of diblock copolymer templated porous Si/Ge/C thin films for Li-ion batteries

C. L. Weindl, K. Wu, C. E. Fajman, Z. Xu, T. Zheng, T. Tian, C. Harder, B. Sochor, S. V. Roth, T. F. Fässler, P. Müller-Buschbaum
Adv. Energy Sustainability Res. 4 (2023) 2300096
 (DOI: doi.org/10.1002/aesr.202300096)



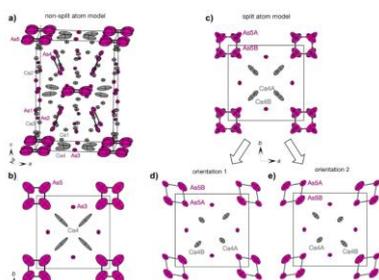
The mechanism of Li ion migration in the superionic conducting open framework structure Li₆B₁₈(Li₃N)_{1-x}(Li₂O)_x (0 ≤ x ≤ 1).

R. J. Spranger, H. Kirchhain, T. M. F. Restle, J. V. Dums, A. J., Karttunen, L. van Wüllen, T. F. Fässler
Phys. Chem. C 127 (2023) 1622–1632
 (DOI: doi.org/10.1021/acs.jpcc.2c06839)



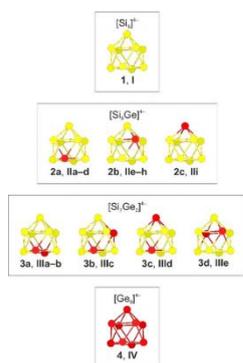
Lithium Ion Mobility in Li₆B₁₈(Li₃N) and Li Vacancy Tuning in the Solid Solution Li₆B₁₈(Li₃N)_{1-x}(Li₂O)_x

T. M. F. Restle, L. Scherf, J. V. Dums, A. G. Mutschke, R. J. Spranger, H. Kirchhain, A. J. Karttunen, L. van Wüllen, T. F. Fässler
Angew. Chem. Int. Ed. 62 (2023) e202213962
 (DOI: doi.org/10.1002/anie.202213962)



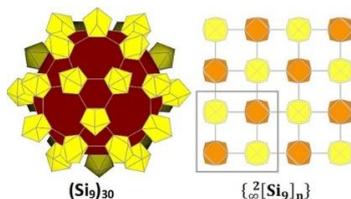
Crystal Structure of Undecacalcium decaarsenide, Ca₁₁As₁₀.

A. V. Hoffmann, T. F. Fässler, V. Hlukhyy
Z. Kristallogr. - N. Cryst. Struct. 238 (2023) 1–3.
 (DOI: doi.org/10.1515/NCRS-2022-0380)



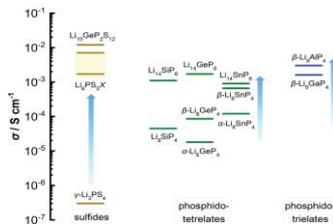
Structural characteristics of mixed nido-[Si_{9-x}Ge_x]⁴⁻ (x = 1, 2) Zintl clusters in solution and within solvent crystals

L.-A. Jantke A. J. Karttunen, T. F. Fässler
Z. Anorg. Allg. Chem. 684 (2022) e202200276
 (DOI: doi.org/10.1002/zaac.202200276)



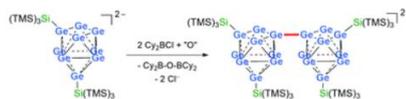
Chemi-Inspired Silicon Allotropes—Experimentally Accessible Si₉ Cages as Proposed Building Block for 1D Polymers, 2D Sheets, Single-Walled Nanotubes, and Nanoparticles

L.-A. Jantke, A. J. Karttunen, T. F. Fässler
Molecules 27 (2022) 822. (DOI: doi.org/10.3390/molecules27030822)



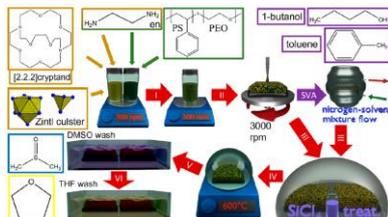
Super-Ionic Conductivity in ω Li_9TrP_4 ($\text{Tr} = \text{Al}, \text{Ga}, \text{In}$) and Lithium Diffusion Pathways in Li_9AlP_4 Polymorphs

T. M. F. Restle, S. Strangmüller, V. Baran, A. Senyshyn, H. Kirchhain, W. Klein, S. Merk, D. Müller, T. Kutsch, L. van Wüllen, T. F. Fässler
Adv. Funct. Mat. 32 (2022) 2112377. (DOI: doi.org/10.1002/adfm.202112377)



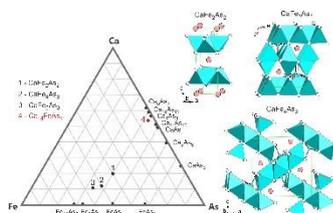
Oxidative Coupling of Silylated Nonagermanide Clusters

C. Wallach, W. Klein, T. F. Fässler
Chem. Commun. 58 (2022) 5486–5489 (DOI: doi.org/10.1039/d2cc01250b)



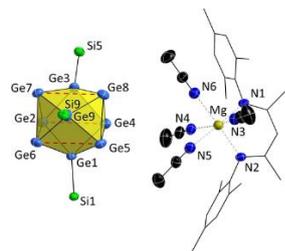
Effect of Solvent Vapor Annealing on Diblock Copolymer-Templated Mesoporous Si/Ge/C Thin Films: Implications for Li-Ion Batteries

C. L. Weindl, C. E. Fajman, M. A. Giebel, K. S. Wienhold, S. Yin, T. Tian, C. Geiger, L. P. Kreuzer, M. Schwartzkopf, S. V. Roth, T. F. Fässler, P. Müller-Buschbaum
ACS Appl. Nano Mater. 5 (2022) 7278–7287
 (DOI: doi.org/10.1021/acsnm.2c01191)



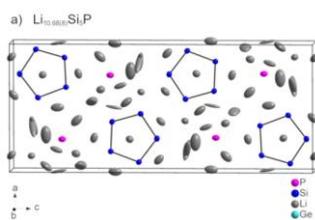
$\text{Ca}_{14}\text{FeAs}_{11}$ – A structure comprising structural motifs of iron-based superconductors and Ca-As Zintl phases

A. V. Hoffmann, T. F. Fässler, V. Hlukhyy
Z. Anorg. Allg. Chem. 648 (2022) (DOI: doi.org/10.1002/zaac.202200168)



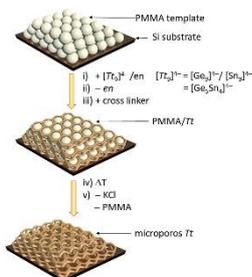
Nonagermanide Zintl Clusters with Mg^{2+} Counter Ions

C. Wallach, W. Klein, T. F. Fässler
Z. Anorg. Allg. Chem. 648 (2022) (DOI: doi.org/10.1002/zaac.202200065)



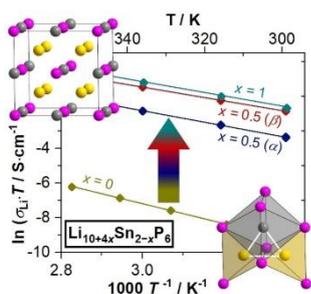
Planar Si_5 and Ge_5 Pentagons beside Isolated Phosphide Anions in Lithium Phosphide Tetrelides $\text{Li}_{10+x}\text{Si}_3\text{P}$ and $\text{Li}_{10+x}\text{Ge}_5\text{P}$

H. Eickhoff, W. Klein, L. Toffoletti, G. Raudaschl-Sieber, T. F. Fässler
Z. Anorg. Allg. Chem. 2022 (DOI: doi.org/10.1002/zaac.202100376)



Inverse Opal-Structured Sn and Sn/Ge Films from Soluble Zintl Clusters as Precursors

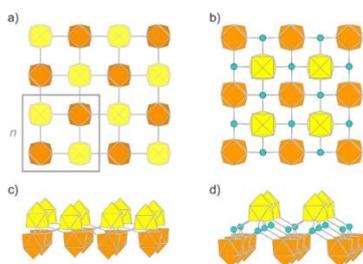
S. Geier, T. Kratky, S. Günther, T. F. Fässler
Z. Anorg. Allg. Chem. 2022 (DOI: doi.org/10.1002/zaac.202100362)



Li_5SnP_3 — a member of the series $Li_{10+4x}Sn_{2-x}P_6$ for $x = 0$ comprising the fast lithium-ion conductors Li_8SnP_4 ($x = 0.5$) and $Li_{14}SnP_6$ ($x = 1$)

S. Strangmüller, D. Müller, G. Raudaschl-Sieber, H. Kirhhain, L. van Wüllen, T. F. Fässler

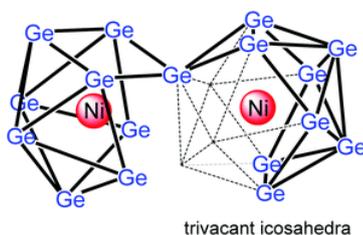
Chem. Eur. J. 2022 (DOI: [10.1002/chem.202104219](https://doi.org/10.1002/chem.202104219))



Chemi-inspired silicon allotropes – experimentally accessible Si_9 cages as proposed building block for 1D polymers, 2D sheets, single-walled nanotubes, and nanoparticles

L.-A. Jantke, A. J. Karttunen, T. F. Fässler

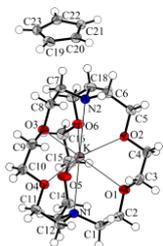
Molecules 2021 (DOI: [10.3390/molecules27030822](https://doi.org/10.3390/molecules27030822))



Filled Trivalent Icosahedra as Building Fragments in 17-atomic Endohedral Germanides $[TM_2@Ge_{17}]^n$ ($TM = Co, Ni$)

C. Wallach, Y. Selic, B. J. L. Witzel, W. Klein, T. F. Fässler

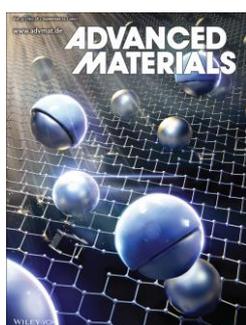
Dalton Trans. 50 (2021)13671–13675 (DOI: [10.1039/d1dt03078g](https://doi.org/10.1039/d1dt03078g))



Crystal structure of (4,7,13,16,21,24-hexaoxa-1,10-diazabicyclo[8.8.8]hexacosane-)potassium cyclopentadienide, $[K([2.2.2]crypt)]Cp$, $C_{23}H_{41}KN_2O_6$

C. Fischer, W. Klein, T. F. Fässler

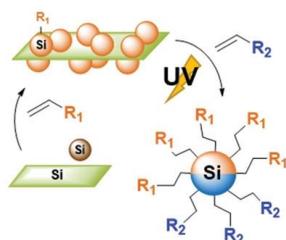
Z. Cryst. C. (2021), online (DOI: [10.1515/ncrs-2021-0296](https://doi.org/10.1515/ncrs-2021-0296))



Inside Front Cover: Surface-Anisotropic Janus Silicon Quantum Dots via Masking on 2D Silicon Nanosheets

M. J. Kloberg, H. Yu, E. Groß, F. Eckmann, T. M. F. Restle, T. F. Fässler, J. G. C. Veinot, B. Rieger

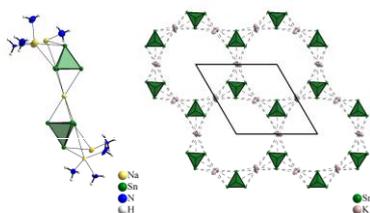
Adv. Mater. 33 (2021), 2170296 (DOI: [10.1002/adma.202170296](https://doi.org/10.1002/adma.202170296))



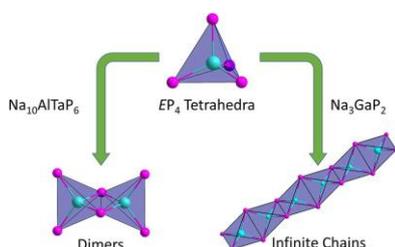
Surface-Anisotropic Janus Silicon Quantum Dots via Masking on 2D Silicon Nanosheets

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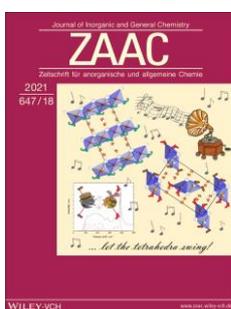
Adv. Mater. 33 (2021), 210028 (DOI: [10.1002/adma.202100288](https://doi.org/10.1002/adma.202100288))



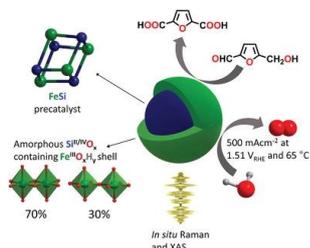
Investigations on the Solubility of Sn₄-Cluster Compounds in Liquid Ammonia
 W. Klein, C. B. Benda, T. Henneberger, B. J. L. Witzel, T. F. Fässler
Anorg. Allg. Chem. 647 (2021), online (DOI: [10.1002/zaac.202100239](https://doi.org/10.1002/zaac.202100239))



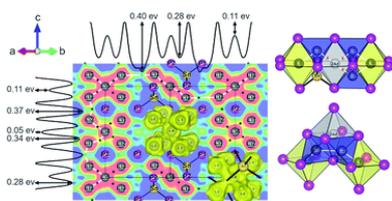
Aliovalent substitution in phosphide-based materials - Crystal structures of Na₁₀AlTaP₆ and Na₃GaP₂ featuring edge-sharing EP₄ tetrahedra (E = Al/Ta and Ga)
 T. M. F. Restle, S. Zeitz, J. Meyer, W. Klein, G. Raudaschl-Sieber, A. J. Karttunen, T. F. Fässler
Anorg. Allg. Chem. 647 (2021), online (DOI: [10.1002/zaac.202100149](https://doi.org/10.1002/zaac.202100149))



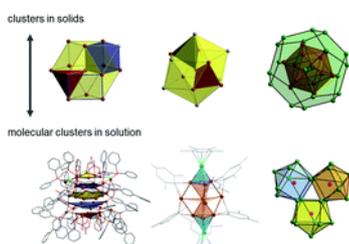
Front Cover
 Dedicated to the 80th birthday of Prof. Schnöckel
Anorg. Allg. Chem. 647 (2021), online (DOI: [10.1002/zaac.202100269](https://doi.org/10.1002/zaac.202100269))



Evolving Highly Active Oxidic Iron(III) Phase from Corrosion of Intermetallic Iron Silicide to Master Efficient Electrocatalytic Water Oxidation and Selective Oxygenation of 5-Hydroxymethylfurfural
 J. N. Hausmann, R. Beltrán-Suito, S. Mebs, V. Hlukhyy, T. F. Fässler, H. Dau, M. Driess, P. W. Menezes
Adv. Mater. 33 (2021) 2008823 (DOI: [10.1002/adma.202008823](https://doi.org/10.1002/adma.202008823))



Synthesis, Structure and Diffusion Pathways of Fast Lithium-Ion Conductors in the Polymorphs α - and β -Li₈SnP₄
 S. Strangmüller, H. Eickhoff, W. Klein, G. Raudaschl-Sieber, H. Kirchhain, T. Kutsch, V. Baran, A. Senyshyn, L. van Wüllen, H. A. Gasteiger, T. F. Fässler
J. Mat. Chem. A, 9 (2021), 15254–15268 (DOI: [10.1039/D1TA03021C](https://doi.org/10.1039/D1TA03021C))



Intermetallic phases meet intermetalloid clusters
 M. Schütz, C. Gemel, W. Klein, R. A. Fischer, T. F. Fässler
Chem. Soc. Rev. 50 (2021), 8496–8510 (DOI: [10.1039/D1CS00286D](https://doi.org/10.1039/D1CS00286D))

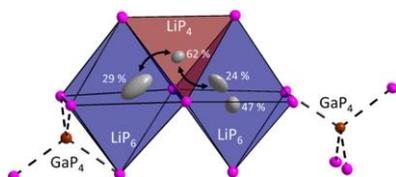


Molecules Meet Solids: From Wade-Mingos Clusters to Intermetalloid Clusters

W. Klein, A. Schier, T. F. Fässler

In: *Structure and Bonding*. Springer, Berlin, Heidelberg (2021)

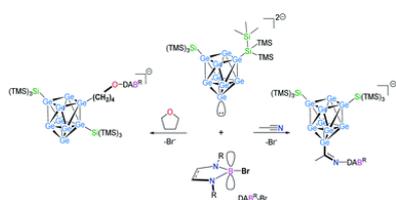
(DOI: [10.1007/430_2021_82](https://doi.org/10.1007/430_2021_82))



Fast Lithium Ion Conduction in Li_9GaP_4

T. M. F. Restle, C. Sedlmeier, H. Kirchhain, W. Klein, G. Raudaschl-Sieber, L. van Wüllen, T. F. Fässler

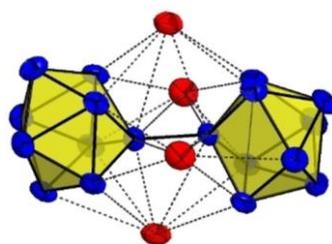
Chem. Mater. 33 (2021), 2957–2966 (DOI: [10.1021/acs.chemmater.1c00504](https://doi.org/10.1021/acs.chemmater.1c00504))



FLP-type Nitrile Activation and Cyclic Ether Ring Opening by Halo-Borane Nonagermanide Cluster Lewis Acid-Base-Pairs

C. Wallach, F. S. Geitner, T. F. Fässler

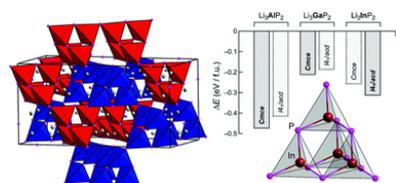
Chem. Sci., 12 (2021) 6969–6976 (DOI: [10.1039/D1SC00811K](https://doi.org/10.1039/D1SC00811K))



On the Oxidation of $[Ge_9]^{4-}$ – Crystal Structures and Raman Spectroscopic Investigation of Linked Ge_9 Clusters

K. Mayer, W. Klein, S. Geier, T. F. Fässler

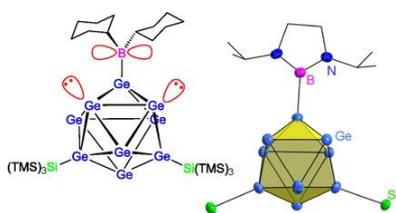
Z. Anorg. Allg. Chem. 647 (2021), 377–384 (DOI: [10.1002/zaac.202000411](https://doi.org/10.1002/zaac.202000411))



Supertetrahedral polyanionic network in the first lithium phosphidoindate Li_3InP_2 – structural similarity to Li_2SiP_2 and Li_2GeP_2 and dissimilarity to Li_3AlP_2 and Li_3GaP_2

T. M. F. Restle, V. L. Deringer, J. Meyer, G. Raudaschl-Sieber, T. F. Fässler

Chem. Sci. 12 (2021), 1278–1285 (DOI: [10.1039/D0SC05851C](https://doi.org/10.1039/D0SC05851C))

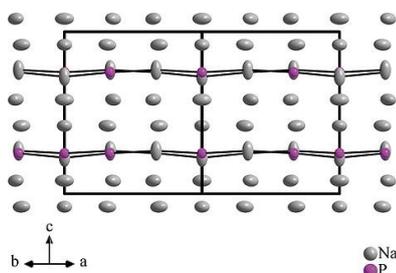


Boranyl-Functionalized $[Ge_9]$ Clusters: Providing the Idea of Intramolecular Ge/B Frustrated Lewis Pairs

C. Wallach, F. S. Geitner, A. J. Karttunen, T. F. Fässler

Angew. Chem. Int. Ed. 60 (2020), 2648–2653 (DOI: [10.1002/anie.202012336](https://doi.org/10.1002/anie.202012336))

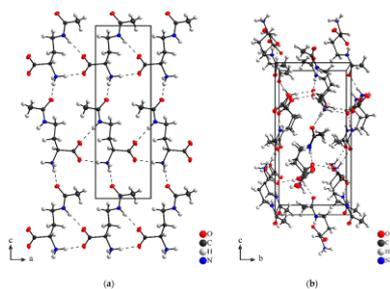
Angew. Chem. 133 (2020), 2680–2685 (DOI: [10.1002/ange.202012336](https://doi.org/10.1002/ange.202012336))



On the Crystal Structure and Conductivity of Na_3P

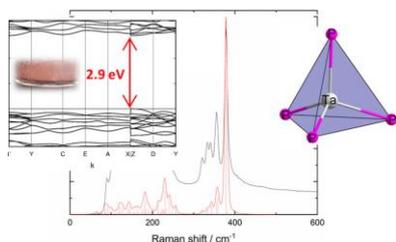
H. Eickhoff, C. Dietrich, W. Klein, W. G. Zeier, T. F. Fässler

Z. Anorg. Allg. Chem. 647 (2020), 28–33 (DOI: [10.1002/zaac.202000308](https://doi.org/10.1002/zaac.202000308))



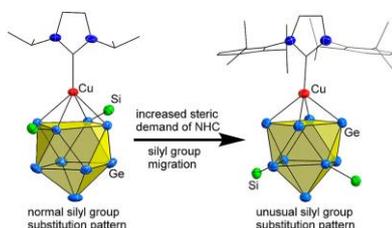
Crystal Structure and Spectroscopic Analysis of the Compatible Solute γ -Acetyl-L-2,4-Diaminobutyric Acid

L. Martin, W. Klein, S. P. Schwaminger, T. F. Fässler, S. Berensmeier
Crystals 10 (2020), 1136 (DOI: [10.3390/cryst10121136](https://doi.org/10.3390/cryst10121136))



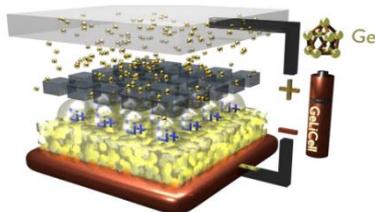
Na₇TaP₄: A Ternary Sodium Phosphidotantalate Containing [TaP₄]⁷⁻ Tetrahedra

T. M. F. Restle, J. V. Dums, G. Raudaschl-Sieber, W. Klein, T. F. Fässler
Inorg. Chem. 59 (2020), 18420 – 18426 (DOI: [10.1021/acs.inorgchem.0c03021](https://doi.org/10.1021/acs.inorgchem.0c03021))



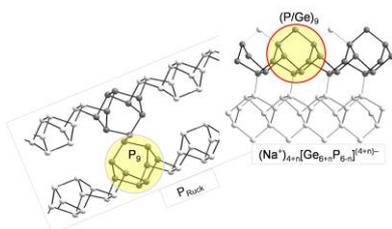
Cluster Expansion versus Complex Formation: Coinage Metal Coordination to Silylated [Ge₉] Cages

F. S. Geitner, T. F. Fässler
Inorg. Chem. 59 (2020), 15218–15227 (DOI: [10.1021/acs.inorgchem.0c02190](https://doi.org/10.1021/acs.inorgchem.0c02190))



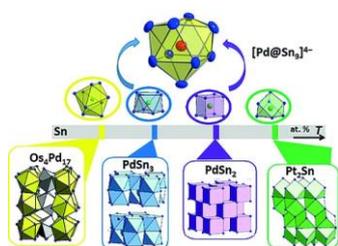
Mesoporous GeOx/Ge/C as Highly Reversible Anode Material with High Specific Capacity for Lithium Ion Batteries

N. Hohn, X. Wang, M. A. Giebel, S. Yin, D. Müller, A. Hetzenecker, L. Bießmann, L. P. Kreuzer, G. E. Moehl, H. Yu, J. G. C. Veinot, T. F. Fässler, Y.-J. Cheng, P. Müller-Buschbaum
ACS Appl. Mater. Interfaces 12 (2020), 47002–47009 (DOI: [10.1021/acsami.0c13560](https://doi.org/10.1021/acsami.0c13560))



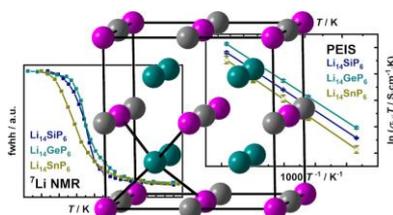
Na₂Ge₃P₃ and Na₅Ge₇P₅ Comprising Heteroatomic Polyanions Mimicking the Structure of Fibrous Red Phosphorus

H. Eickhoff, V. Hlukhyy, T. F. Fässler
Z. Anorg. Allg. Chem. 646 (2020), 1834–1838 (DOI: [10.1002/zaac.202000316](https://doi.org/10.1002/zaac.202000316))



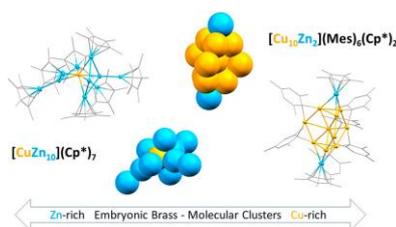
Extracting [Pd@Sn₉]⁴⁺ and [Rh@Pb₉]⁴⁺ Clusters from their Binary Alloys Using “Metal Scissors”

M. Boyko, V. Hlukhyy, H. Jin, J. V. Dums, T. F. Fässler
Z. Anorg. Allg. Chem. 646 (2020), 1575–158 (DOI: [10.1002/zaac.202000061](https://doi.org/10.1002/zaac.202000061))



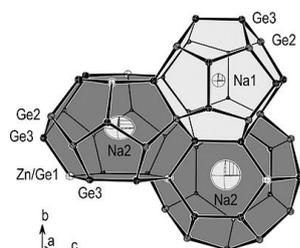
Modifying the Properties of Fast Lithium-Ion Conductors—The Lithium Phosphidotetrelates Li₁₄SiP₆, Li₁₄GeP₆, and Li₁₄SnP₆

S. Strangmüller, H. Eickhoff, G. Raudaschl-Sieber, H. Kirchhain, C. Sedlmeier, L. van Wüllen, H. A. Gasteiger, T. F. Fässler
Chem. Mater. 32 (2020), 6925–6934 (DOI: [10.1021/acs.chemmater.0c02052](https://doi.org/10.1021/acs.chemmater.0c02052))



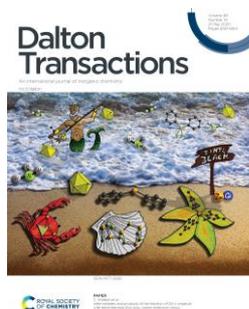
Contrasting Structure and Bonding of a Copper-Rich and a Zinc-Rich Intermetalloid Cu/Zn Cluster

M. Schütz, M. Muhr, K. Freitag, C. Gemel, S. Kahlal, J.-Y. Saillard, A. C. H. Da Silva, J. L. F. Da Silva, T. F. Fässler, R. A. Fischer
Inorg. Chem. 59 (2020), 9077–9085 (DOI: [10.1021/acs.inorgchem.0c00943](https://doi.org/10.1021/acs.inorgchem.0c00943))



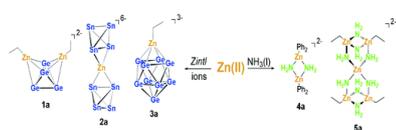
The Intermetallic Type-I Clathrate Na₈Zn₄Ge₄₂

S. Stegmaier, V. Hlukhyy, T. F. Fässler
Z. Anorg. Allg. Chem. 646 (2020), 1073–1078 (DOI: [10.1002/zaac.201900253](https://doi.org/10.1002/zaac.201900253))



Inside front cover: Intermediates and Products of the Reaction of Zn(II) Organyls with Tetrel Element Zintl Ions: Cluster Extension versus Complexation

C. Wallach, K. Mayer, T. Henneberger, W. Klein, T. F. Fässler
Dalt. Trans. 49 (2020), 6148–6148 (DOI: [10.1039/D0DT90093A](https://doi.org/10.1039/D0DT90093A))



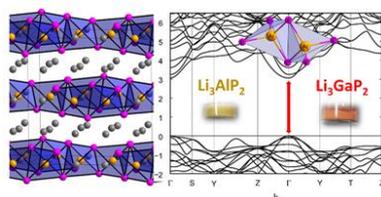
Intermediates and Products of the Reaction of Zn(II) Organyls with Tetrel Element Zintl Ions: Cluster Extension versus Complexation

C. Wallach, K. Mayer, T. Henneberger, W. Klein, T. F. Fässler
Dalt. Trans. 49 (2020), 6191–6198 (DOI: [10.1039/D0DT01096K](https://doi.org/10.1039/D0DT01096K))



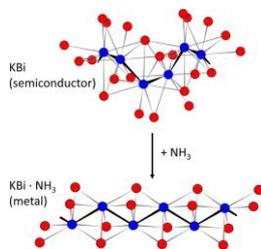
Cover Picture: Synthesis, Structure, Solid State NMR Spectroscopy, and Electronic Structures of the Phosphidotrirelates Li₃AlP₂ and Li₃GaP₂

T. M. F. Restle, J. V. Dums, G. Raudaschl-Sieber, T. F. Fässler
Chem. Eur. J. 26 (2020), 6737–6737 (DOI: [10.1002/chem.202001592](https://doi.org/10.1002/chem.202001592))



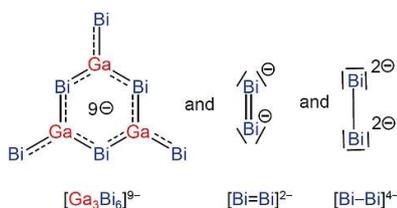
Synthesis, Structure, Solid State NMR Spectroscopy, and Electronic Structures of the Phosphidotrirelates Li₃AlP₂ and Li₃GaP₂

T. M. F. Restle, J. V. Dums, G. Raudaschl-Sieber, T. F. Fässler
Chem. Eur. J. 26 (2020), 6812–6819 (DOI: [10.1002/chem.202000482](https://doi.org/10.1002/chem.202000482))

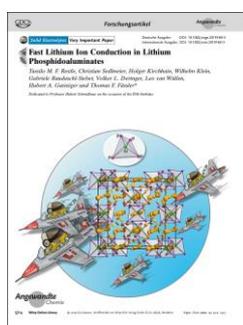


Lösemittel-induzierter Halbleiter-Metall-Übergang: Planare ${}^1[\text{Bi}^{1-}]$ -Zickzack-Ketten im metallischen $\text{KBi} \cdot \text{NH}_3$ im Vergleich zu ${}^1[\text{Bi}^{1-}]$ -Helices im halbleitenden KBi
 K. Mayer, J. V. Dums, C. B. Benda, W. Klein, T. F. Fässler
Angew. Chem. 132 (2020), 6866–6871 (DOI: [10.1002/ange.201915735](https://doi.org/10.1002/ange.201915735))

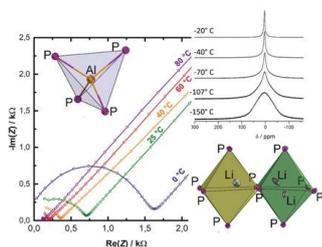
Solvate-Induced Metallization: Flat ${}^1[\text{Bi}^{1-}]$ Zigzag Chains in Metallic $\text{KBi} \cdot \text{NH}_3$ versus ${}^1[\text{Bi}^{1-}]$ Helices in Semiconducting KBi
Angew. Chem. Int. Ed. 59 (2020), 6800–6805 (DOI: [10.1002/anie.201915735](https://doi.org/10.1002/anie.201915735))



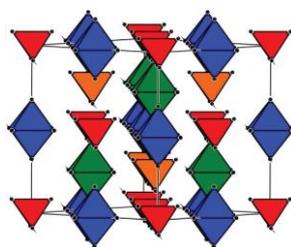
$\text{K}_{10}\text{Ga}_3\text{Bi}_{6.65}$ – The First Compound in the Ternary A-Ga-Bi System Comprising Cyclic Tris-meta Borate-Analogous $[\text{Ga}_3\text{Bi}_6]^{9-}$ Units and Bi_2 Dumbbells
 M. Boyko, V. Hlukkyy, T. F. Fässler
Z. Anorg. Allg. Chem. 646 (2020), 659–664 (DOI: [10.1002/zaac.201900292](https://doi.org/10.1002/zaac.201900292))



Frontispiz: Fast Lithium Ion Conduction in Lithium Phosphidoaluminates
 T. M. F. Restle, C. Sedlmeier, H. Kirchhain, W. Klein, G. Raudaschl-Sieber, V. L. Deringer, L. van Wüllen, H. A. Gasteiger, T. F. Fässler
Angew. Chem. Int. Ed. 59 (2020), 5665 (DOI: [10.1002/anie.202081462](https://doi.org/10.1002/anie.202081462))
Angew. Chem. 132 (2020), 5714 (DOI: [10.1002/ange.202081462](https://doi.org/10.1002/ange.202081462))



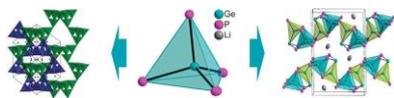
Fast Lithium Ion Conduction in Lithium Phosphidoaluminates
 T. M. F. Restle, C. Sedlmeier, H. Kirchhain, W. Klein, G. Raudaschl-Sieber, V. L. Deringer, L. van Wüllen, H. A. Gasteiger, T. F. Fässler
Angew. Chem. Int. Ed. 59 (2019), 5665–5674 (DOI: [10.1002/anie.201914613](https://doi.org/10.1002/anie.201914613))
Angew. Chem. 132 (2019), 5714–5723 (DOI: [10.1002/ange.201914613](https://doi.org/10.1002/ange.201914613))



Li vs. Zn substitution in $\text{Li}_{17}\text{Si}_4$ – $\text{Li}_{17-\epsilon}\text{Zn}_\epsilon\text{Si}_4$ connecting the structures of $\text{Li}_{21}\text{Si}_5$ and $\text{Li}_{17}\text{Si}_4$
 V. Baran, T. F. Fässler
Z. Naturforsch. B 75 (2020), 91–96 (DOI: [10.1515/znbn-2019-0157](https://doi.org/10.1515/znbn-2019-0157))



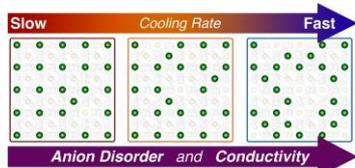
Cover Feature: Polyanionic Frameworks in the Lithium Phosphidogermanates Li_2GeP_2 and LiGe_3P_3 – Synthesis, Structure, and Lithium Ion Mobility (*Z. Anorg. Allg. Chem.* 3/2020)
 H. Eickhoff, C. Sedlmeier, W. Klein, G. Raudaschl-Sieber, H. A. Gasteiger, T. F. Fässler
Z. Anorg. Allg. Chem. 646 (2020), 79 (DOI: [10.1002/zaac.202070033](https://doi.org/10.1002/zaac.202070033))



Polyanionic Frameworks in the Lithium Phosphidogermanates Li_2GeP_2 and LiGe_3P_3 – Synthesis, Structure, and Lithium Ion Mobility

H. Eickhoff, C. Sedlmeier, W. Klein, G. Raudaschl-Sieber, H. A. Gasteiger, T. F. Fässler

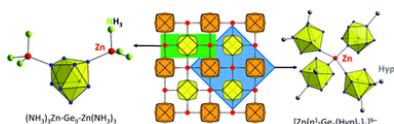
Z. Anorg. Allg. Chem. 646 (2020), 95–102 (DOI: [10.1002/zaac.201900228](https://doi.org/10.1002/zaac.201900228))



Rapid crystallization and Kinetic Freezing of Site-Disorder in the Lithium Superionic Argyroditite $\text{Li}_6\text{PS}_5\text{Br}$

A. Gautam, M. Sadowski, N. Prinz, H. Eickhoff, N. Minafra, M. Ghidui, S. P. Culver, K. Albe, T. F. Fässler, M. Zobel, W. G. Zeier

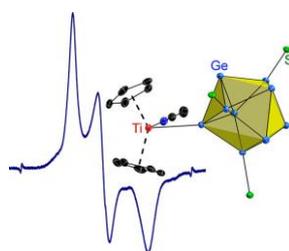
Chem. Mater. 31 (2019), 10178–10185 (DOI: [10.1021/acs.chemmater.9b03852](https://doi.org/10.1021/acs.chemmater.9b03852))



Zinc as a Versatile Connecting Atom for Zintl Cluster Oligomers

K. Mayer, W. Klein, T. F. Fässler

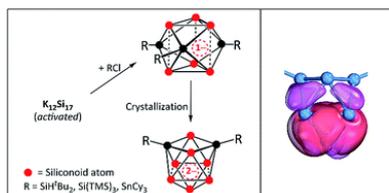
Chem. Commun. 55 (2019), 12156–12159 (DOI: [10.1039/C9CC06388A](https://doi.org/10.1039/C9CC06388A))



Early-Transition-Metal Complexes of Functionalized Nonagermanide Clusters: Synthesis and Characterization of $[\text{Cp}_2(\text{MeCN})\text{Ti}(\eta^1\text{-Ge}_9\{\text{Si}(\text{TMS})_3\}_3)]$ and $\text{K}_3[\text{Cp}_2\text{Ti}(\eta^1\text{-Ge}_9\{\text{Si}(\text{TMS})_3\}_2)_2]$

F. S. Geitner, W. Klein, O. Storcheva, T. D. Tilley, T. F. Fässler

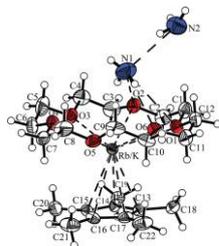
Inorg. Chem. 58 (2019), 13293–13298 (DOI: [10.1021/acs.inorgchem.9b02158](https://doi.org/10.1021/acs.inorgchem.9b02158))



Silicon clusters with six and seven unsubstituted vertices via a two-step reaction from elemental silicon

L. J. Schiegerl, A. J. Karttunen, W. Klein, T. F. Fässler

Chem. Sci. 10 (2019), 9130–9139 (DOI: [10.1039/C9SC03324F](https://doi.org/10.1039/C9SC03324F))

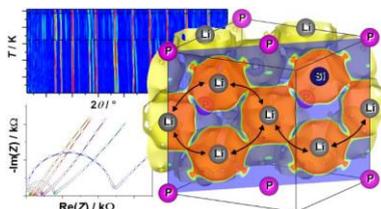


Crystal structure of (1,4,7,10,13,16-hexaoxacyclooctadecane- $\kappa^6\text{O}_6$) 1,2,3,4,5-pentamethyl-cyclopenta-2,4-dien-1-yl(potassium, rubidium) — ammonia (1/2), $[\text{K}_{0.3}\text{Rb}_{0.7}(18\text{-crown-6})]\text{Cp}^ \cdot 2\text{NH}_3$, $\text{C}_{22}\text{H}_{45}\text{K}_{0.3}\text{N}_2\text{O}_6\text{Rb}_{0.7}$*

T. Henneberger, W. Klein, T. F. Fässler

Z. Kristallogr. – New Cryst. Struct. 234 (2019), 1241–1243

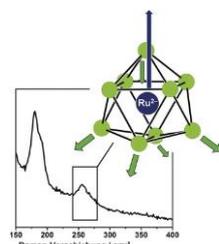
(DOI: [10.1515/ncrs-2019-0368](https://doi.org/10.1515/ncrs-2019-0368))



Fast Ionic Conductivity in the Most Lithium-Rich Phosphidosilicate $\text{Li}_{14}\text{SiP}_6$

S. Strangmüller, H. Eickhoff, D. Müller, W. Klein, G. Raudaschl-Sieber, H. Kirchhain, C. Sedlmeier, V. Baran, A. Senyshyn, V. L. Deringer, L. van Wüllen, H. A. Gasteiger, T. F. Fässler

J. Am. Chem. Soc. 141 (2019), 14200–14209 (DOI: [10.1021/jacs.9b05301](https://doi.org/10.1021/jacs.9b05301))



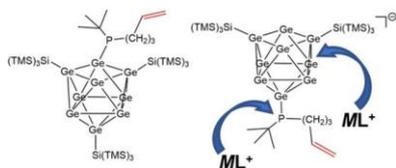
Metallo-Käfige für Metall-Anionen: Hochgeladene $[\text{Co}@\text{Ge}_9]^{5-}$ - und $[\text{Ru}@\text{Sn}_9]^{6-}$ -Cluster mit sphärisch eingelagerten Co^- - und Ru^{2-} -Anionen

B. J. L. Witzel, W. Klein, J. V. Dums, M. Boyko, T. F. Fässler

Angew. Chem. 131 (2019), 13040–13045 (DOI: [10.1002/ange.201907127](https://doi.org/10.1002/ange.201907127))

Metallo-cages for Metal Anions: Highly Charged $[\text{Co}@\text{Ge}_9]^{5-}$ and $[\text{Ru}@\text{Sn}_9]^{6-}$ Clusters Featuring Spherically Encapsulated Co^{1-} and Ru^{2-} Anions

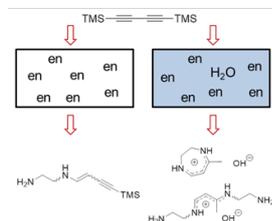
Angew. Chem. Int. Ed. 58 (2019), 12908–12913 (DOI: [10.1002/anie.201907127](https://doi.org/10.1002/anie.201907127))



Enhancing the Variability of [Ge₉] Cluster Chemistry through Phosphine Functionalization

C. Wallach, F. S. Geitner, W. Klein, T. F. Fässler

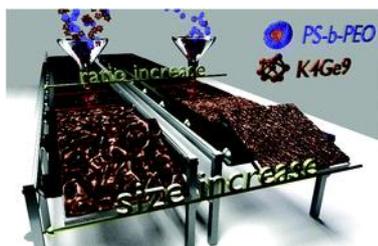
Chem. Eur. J. 25 (2019), 12349–12356 (DOI: [10.1002/chem.201901673](https://doi.org/10.1002/chem.201901673))



The Reaction of Ethylenediamine with 1,4-Bis(trimethylsilyl)butadiyne and the Role of Water: A Qualitative Method for the Determination of Water Impurities in Ethylenediamine

S. Frischhut, M. Bentlohner, T. F. Fässler

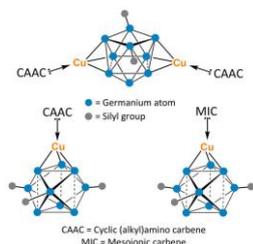
Eur. J. Org. Chem. 20 (2019), 3101–3104 (DOI: [10.1002/ejoc.201900200](https://doi.org/10.1002/ejoc.201900200))



Amphiphilic diblock copolymer-mediated structure control in nanoporous germanium-based thin films

N. Hohn, A. E. Hetzenecker, M. A. Giebel, S. Geier, L. Bießmann, V. Körstgens, N. Saxena, J. Schlipf, W. Ohm, P. S. Deimel, F. Allegretti, J. V. Barth, S. V. Roth, T. F. Fässler, P. Müller-Buschbaum

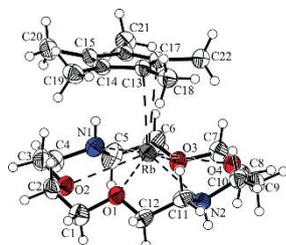
Nanoscale 11 (2019), 2048–2055 (DOI: [10.1039/C8NR09427F](https://doi.org/10.1039/C8NR09427F))



Silylated Ge₉ Clusters as New Ligands for Cyclic (Alkyl)amino and Mesoionic Carbene Copper Complexes

L. J. Schiegerl, M. Melaimi, D. R. Tolentino, W. Klein, G. Bertrand, T. F. Fässler

Inorg. Chem. 58 (2019), 3256–2364 (DOI: [10.1021/acs.inorgchem.8b03338](https://doi.org/10.1021/acs.inorgchem.8b03338))



Crystal structure of [(1,2-η)-1,2,3,4,5-pentamethyl-cyclopenta-2,4-dien-1-yl] (1,4,10,13-tetraoxa-7,16-diazacyclooctadecane-κ⁶N₂,O₄) rubidium (I), [Rb(diaza-18-crown-6)]Cp, C₂₂H₄₁N₂O₄Rb*

T. Henneberger, W. Klein, T. F. Fässler

Z. Kristallogr. – New Cryst. Struct. 234 (2019), 165–167 (DOI: [10.1515/ncrs-2018-0252](https://doi.org/10.1515/ncrs-2018-0252))