

Svilen Bobev

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#	Paper	IF	Citations
198	Clathrates of Group 14 with Alkali Metals: An Exploration. <i>Journal of Solid State Chemistry</i> , 2000 , 153, 92-105	3.3	207
197	Synthesis and Characterization of Stable Stoichiometric Clathrates of Silicon and Germanium: Cs ₈ Na ₁₆ Si ₁₃₆ and Cs ₈ Na ₁₆ Ge ₁₃₆ . <i>Journal of the American Chemical Society</i> , 1999 , 121, 3795-3796	16.4	102
196	Cation-anion interactions as structure directing factors: structure and bonding of Ca ₂ CdSb ₂ and Yb ₂ CdSb ₂ . <i>Journal of the American Chemical Society</i> , 2007 , 129, 4049-57	16.4	84
195	Interplay between size and electronic effects in determining the homogeneity range of the A ₉ Zn _{4+x} Pn ₉ and A ₉ Cd _{4+x} Pn ₉ phases (0 <i>Journal of the American Chemical Society</i> , 2007 , 129, 10011-8	16.4	78
194	Metallic behavior of the Zintl phase EuGe ₂ : combined structural studies, property measurements, and electronic structure calculations. <i>Journal of Solid State Chemistry</i> , 2004 , 177, 3545-3552	3.3	71
193	Probing the limits of the Zintl concept: structure and bonding in rare-earth and alkaline-earth zinc-antimonides Yb ₉ Zn _{4+x} Sb ₉ and Ca ₉ Zn _{4.5} Sb ₉ . <i>Inorganic Chemistry</i> , 2004 , 43, 5044-52	5.1	67
192	Synthesis, crystallographic and theoretical studies of the new Zintl phases Ba ₂ Cd ₂ Pn ₃ (Pn = As, Sb), and the solid solutions (Ba _{1-x} Sr _x) ₂ Cd ₂ Sb ₃ and Ba ₂ Cd ₂ (Sb _{1-x} As _x) ₃ . <i>Dalton Transactions</i> , 2010 , 39, 1063-70	4.3	60
191	Unusual Mn-Mn spin coupling in the polar intermetallic compounds CaMn ₂ Sb ₂ and SrMn ₂ Sb ₂ . <i>Inorganic Chemistry</i> , 2006 , 45, 4047-54	5.1	55
190	Comparison of bulk-sensitive spectroscopic probes of Yb valence in Kondo systems. <i>Physical Review B</i> , 2007 , 75,	3.3	52
189	Isolated infinity ¹ [ZnPn ₂] ₄ - chains in the Zintl phases Ba ₂ ZnPn ₂ (Pn = As, Sb, Bi)--synthesis, structure, and bonding. <i>Inorganic Chemistry</i> , 2010 , 49, 5173-9	5.1	51
188	Zintl phase variations through cation selection. Synthesis and structure of A ₂₁ Cd ₄ Pn ₁₈ (A = Eu, Sr, Ba; Pn = Sb, Bi). <i>Inorganic Chemistry</i> , 2008 , 47, 1919-21	5.1	50
187	Synthesis, structure and electronic structure of a new polymorph of CaGe ₂ . <i>Journal of Solid State Chemistry</i> , 2007 , 180, 1575-1581	3.3	48
186	Synthesis, structure and physical properties of the new Zintl phases Eu ₁₁ Zn ₆ Sb ₁₂ and Eu ₁₁ Cd ₆ Sb ₁₂ . <i>Journal of Solid State Chemistry</i> , 2008 , 181, 2690-2696	3.3	47
185	Ternary rare-earth alumo-silicides—single-crystal growth from Al flux, structural and physical properties. <i>Journal of Solid State Chemistry</i> , 2005 , 178, 2091-2103	3.3	47
184	Zintl phases with group 15 elements and the transition metals: A brief overview of pnictides with diverse and complex structures. <i>Journal of Solid State Chemistry</i> , 2019 , 270, 346-359	3.3	47
183	Synthesis of 1T, 2H, and 6R Germanane Polytypes. <i>Chemistry of Materials</i> , 2018 , 30, 1335-1343	9.6	43
182	Synthesis, structure, and bonding of the Zintl phase Ba ₃ Cd ₂ Sb ₄ . <i>Inorganic Chemistry</i> , 2008 , 47, 11237-44	5.1	43

181	Crystal Growth, Structural, and Property Studies on a Family of Ternary Rare-Earth Phases RE ₂ InGe ₂ (RE = Sm, Gd, Tb, Dy, Ho, Yb). <i>Chemistry of Materials</i> , 2005 , 17, 5567-5573	9.6	42
180	Synthesis, structure and properties of the new rare-earth Zintl phase Yb ₁₁ Ga ₅ Sb ₉ . <i>Journal of Solid State Chemistry</i> , 2005 , 178, 1071-1079	3.3	41
179	Synthesis, Crystal Structures and Properties of the Zintl Phases Sr ₂ ZnP ₂ , Sr ₂ ZnAs ₂ , A ₂ ZnSb ₂ and A ₂ ZnBi ₂ (A = Sr and Eu). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011 , 637, 2018-2025	1.3	39
178	Synthesis, crystal and electronic structures, and properties of the new pnictide semiconductors A ₂ CdPn ₂ (A = Ca, Sr, Ba, Eu; Pn = P, As). <i>Inorganic Chemistry</i> , 2011 , 50, 8020-7	5.1	37
177	Single crystal growth, and magnetic and electronic properties of EuGa ₄ . <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 277, 236-243	2.8	37
176	Tin clathrates with the type II structure. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1696-9	16.4	36
175	Structure and bonding in Yb ₄ MgGe ₄ : Yb ²⁺ /Yb ³⁺ mixed-valency and charge separation. <i>Journal of the American Chemical Society</i> , 2006 , 128, 3532-3	16.4	36
174	Synthesis and characterization of A ₃ Na ₁₀ Sn ₂₃ (A = Cs, Rb, K) with a new clathrate-like structure and of the chiral clathrate Rb ₅ Na ₃ Sn ₂₅ . <i>Inorganic Chemistry</i> , 2000 , 39, 5930-7	5.1	36
173	Synthesis, Structural Characterization, and Physical Properties of the Type-I Clathrates A ₈ Zn ₁₈ As ₂₈ (A = K, Rb, Cs) and Cs ₈ Cd ₁₈ As ₂₈ . <i>Chemistry of Materials</i> , 2012 , 24, 3596-3603	9.6	35
172	New Manganese-Bearing Antimonides and Bismuthides with Complex Structures. Synthesis, Structural Characterization, and Electronic Properties of Yb ₉ Mn _{4+x} Pn ₉ (Pn = Sb or Bi) <i>Chemistry of Materials</i> , 2010 , 22, 840-850	9.6	35
171	Diverse polyanions based on MnBi ₄ and MnSb ₄ tetrahedra: polymorphism, structure, and bonding in Ca ₂₁ Mn ₄ Bi ₁₈ and Ca ₂₁ Mn ₄ Sb ₁₈ . <i>Inorganic Chemistry</i> , 2007 , 46, 874-83	5.1	35
170	Are Ba ₁₁ Cd ₆ Sb ₁₂ and Sr ₁₁ Cd ₆ Sb ₁₂ Zintl phases or not? A density-functional theory study. <i>Journal of Computational Chemistry</i> , 2008 , 29, 2125-33	3.5	35
169	BaGa ₂ Pn ₂ (Pn = P, As): new semiconducting phosphides and arsenides with layered structures. <i>Inorganic Chemistry</i> , 2010 , 49, 7935-40	5.1	34
168	Synthesis, Structure, Thermoelectric Properties, and Band Gaps of Alkali Metal Containing Type I Clathrates: A ₈ Ga ₈ Si ₃₈ (A = K, Rb, Cs) and K ₈ Al ₈ Si ₃₈ . <i>Chemistry of Materials</i> , 2015 , 27, 2812-2820	9.6	33
167	Syntheses, and crystal and electronic structures of the new Zintl phases Na ₂ ACdSb ₂ and K ₂ ACdSb ₂ (A=Ca, Sr, Ba, Eu, Yb): Structural relationship with Yb ₂ CdSb ₂ and the solid solutions Sr _{2-x} A _x CdSb ₂ , Ba _{2-x} A _x CdSb ₂ and Eu _{2-x} Yb _x CdSb ₂ . <i>Journal of Solid State Chemistry</i> , 2011 , 184, 432-440	3.3	33
166	Synthesis and structural characterization of the ternary Zintl phases AE ₃ Al ₂ Pn ₄ and AE ₃ Ga ₂ Pn ₄ (AE=Ca, Sr, Ba, Eu; Pn=P, As). <i>Journal of Solid State Chemistry</i> , 2012 , 188, 59-65	3.3	32
165	Eight-coordinated arsenic in the Zintl phases RbCd ₄ As ₃ and RbZn ₄ As ₃ : synthesis and structural characterization. <i>Inorganic Chemistry</i> , 2011 , 50, 8375-83	5.1	31
164	Combined Experimental and Density Functional Theory Studies on the Crystal Structures and Magnetic Properties of Mg(Mg _{1-x} Mn _x) ₂ Sb ₂ (x [0.25]) and BaMn ₂ Sb ₂ . <i>European Journal of Inorganic Chemistry</i> , 2008 , 2008, 4262-4269	2.3	31

- 163 Vacancy ordering in SmGe_{2-x} and GdGe_{2-x} ($x = 0.33$): structure and properties of two Sm_3Ge_5 polymorphs and of Gd_3Ge_5 . *Inorganic Chemistry*, **2006**, 45, 7286-94 5.1 31
- 162 Naked clusters of 56 tin atoms in the solid state. *Journal of the American Chemical Society*, **2002**, 124, 3359-65 16.4 31
- 161 Synthesis and characterization of the largest isolated clusters of tin, $[\text{Sn}_{12}]^{12-}$, in $(\text{AE})\text{Na}_{10}\text{Sn}_{12}$ ($\text{AE} = \text{Ca}$ or Sr). *Inorganic Chemistry*, **2001**, 40, 5361-4 5.1 31
- 160 Structure and Properties of a New Family of Nearly Equiatomic Rare-Earth Metal-Tin-Germanides $\text{RESn}_{1+x}\text{Ge}_{1-x}$ ($\text{RE} = \text{Y}, \text{Gd-Tm}$): an Unusual Example of Site Preferences Between Elements from the Same Group. *Chemistry of Materials*, **2008**, 20, 2151-2159 9.6 30
- 159 Synthesis, structure, chemical bonding, and magnetism of the series RELiGe_2 ($\text{RE} = \text{La-Nd}, \text{Sm}, \text{Eu}$). *Inorganic Chemistry*, **2012**, 51, 620-8 5.1 27
- 158 Synthesis, crystal structures, magnetic and electric transport properties of $\text{Eu}_{11}\text{InSb}_9$ and $\text{Yb}_{11}\text{InSb}_9$. *Journal of Solid State Chemistry*, **2007**, 180, 2088-2094 3.3 27
- 157 Closely related rare-earth metal germanides $\text{RE}_2\text{Li}_2\text{Ge}_3$ and $\text{RE}_3\text{Li}_4\text{Ge}_4$ ($\text{RE} = \text{La-Nd}, \text{Sm}$): synthesis, crystal chemistry, and magnetic properties. *Inorganic Chemistry*, **2012**, 51, 3119-29 5.1 26
- 156 Mixed cations and structural complexity in $(\text{Eu}_{1-x}\text{Ca}_x)_4\text{In}_3\text{Ge}_4$ and $(\text{Eu}_{1-x}\text{Ca}_x)_3\text{In}_2\text{Ge}_3$ —the first two members of the homologous series $\text{A}_2[n+m]\text{In}_{2n+m}\text{Ge}_{2[n+m]}$ ($n, m = 1, 2, \dots$ infinity; $\text{A} = \text{Ca}, \text{Sr}, \text{Ba}, \text{Eu}, \text{or Yb}$). *Inorganic Chemistry*, **2010**, 49, 1773-83 5.1 26
- 155 $\text{Ba}_{11}\text{Cd}_8\text{Bi}_{14}$: bismuth zigzag chains in a ternary alkaline-earth transition-metal Zintl phase. *Inorganic Chemistry*, **2006**, 45, 7126-32 5.1 26
- 154 Magnesium substitutions in rare-earth metal germanides with the orthorhombic Gd_5Si_4 -type structure. Synthesis, crystal chemistry, and magnetic properties of $\text{RE}_{5-x}\text{Mg}_x\text{Ge}_4$ ($\text{RE} = \text{Gd-Tm}, \text{Lu}, \text{and Y}$). *Inorganic Chemistry*, **2009**, 48, 6641-51 5.1 25
- 153 Simplifying strong electronic correlations in uranium: Localized uranium heavy-fermion $\text{UM}_2\text{Zn}_{20}$ ($\text{M} = \text{Co}, \text{Rh}$) compounds. *Physical Review B*, **2008**, 78, 3.3 22
- 152 From the Ternary Phase CaZnSb (I) to the Quaternary Solid Solutions CaRE_xZnSb ($\text{RE} = \text{La-Nd}, \text{Sm}, \text{Gd}, x \text{ I.9}$). A Tale of Electron Doping via Rare-Earth Metal Substitutions and the Concomitant Structural Transformations. *Inorganic Chemistry*, **2019**, 58, 8506-8516 5.1 21
- 151 Ba and Sr Binary Phosphides: Synthesis, Crystal Structures, and Bonding Analysis. *Inorganic Chemistry*, **2015**, 54, 8608-16 5.1 21
- 150 New quaternary Zintl phases: Synthesis, crystal and electronic structures of $\text{KA}_2\text{Cd}_2\text{Sb}_3$ ($\text{A} = \text{Ca}, \text{Sr}, \text{Ba}, \text{Eu}, \text{Yb}$). *Polyhedron*, **2010**, 29, 456-462 2.7 21
- 149 On the Extended Series of Quaternary Zintl Phases $\text{Ca}_{13}\text{REMnSb}_{11}$ ($\text{RE} = \text{La-Nd}, \text{Sm}, \text{Gd-Dy}$). *European Journal of Inorganic Chemistry*, **2016**, 2016, 2912-2922 2.3 21
- 148 The Ternary Alkaline-Earth Metal Manganese Bismuthides SrMnBi and BaMnBi ($x \text{ I.15}$). *Inorganic Chemistry*, **2017**, 56, 12369-12378 5.1 20
- 147 Anodes for Lithium-Ion Batteries Based on Type I Silicon Clathrate BaAlSi - Role of Processing on Surface Properties and Electrochemical Behavior. *ACS Applied Materials & Interfaces*, **2017**, 9, 41246-41257 9.5 20
- 146 Five new ternary indium-arsenides discovered. Synthesis and structural characterization of the Zintl phases $\text{Sr}_3\text{In}_2\text{As}_4$, $\text{Ba}_3\text{In}_2\text{As}_4$, $\text{Eu}_3\text{In}_2\text{As}_4$, $\text{Sr}_5\text{In}_2\text{As}_6$ and $\text{Eu}_5\text{In}_2\text{As}_6$. *Journal of Solid State Chemistry*, **2019**, 278, 120889 3.3 20

145	Structural variability versus structural flexibility. A case study of $\text{Eu}_9\text{Cd}_{4+x}\text{Sb}_9$ and $\text{Ca}_9\text{Mn}_{4+x}\text{Sb}_9$ ($x \in [1]/2$). <i>Inorganic Chemistry</i> , 2015 , 54, 947-55	5.1	20
144	Synthesis, crystal chemistry, and magnetic properties of $\text{RE}_7\text{Li}_8\text{Ge}_{10}$ and $\text{RE}_{11}\text{Li}_{12}\text{Ge}_{16}$ (RE = La-Nd, Sm): new members of the $[\text{REGe}_2](n)[\text{RELi}_2\text{Ge}](m)$ homologous series. <i>Inorganic Chemistry</i> , 2012 , 51, 6821-9	5.1	20
143	Crystal chemistry and magnetic properties of the solid solutions CaRE_mMnBi (RE = La-Nd, Sm, and Gd-Ho; $x \in [0.6-0.8]$). <i>Dalton Transactions</i> , 2017 , 46, 16041-16049	4.3	19
142	Synthesis, structural characterization, and physical properties of the early rare-earth metal digermanides $\text{REGe}(2-x)$ ($x \in [1/4]$) [RE = La-Nd, Sm]. A case study of commensurately and incommensurately modulated structures. <i>Inorganic Chemistry</i> , 2013 , 52, 953-64	5.1	18
141	Synthesis, structural characterization and magnetic properties of RE_2MgGe_2 (RE=rare-earth metal). <i>Journal of Solid State Chemistry</i> , 2011 , 184, 2941-2947	3.3	18
140	Magnetic order in CaMn_2Sb_2 studied via powder neutron diffraction. <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 3653-3657	2.8	18
139	cis-trans Germanium chains in the intermetallic compounds $\text{ALi}_1\text{In}_x\text{Ge}_2$ and $\text{A}_2(\text{Li}_1\text{In}_x)_2\text{Ge}_3$ (A=Sr, Ba, Eu) Experimental and theoretical studies. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 2895-2902	3.3	18
138	Synthesis, structural characterization, electronic structure, and magnetic properties of the Zintl phase $\text{Eu}_{10}\text{Cd}_6\text{Bi}_{12}$. <i>Chemistry - an Asian Journal</i> , 2007 , 2, 619-24	4.5	18
137	Gallium substitutions as a means to stabilize alkaline-earth and rare-earth metal pnictides with the cubic Th_3P_4 type: Synthesis and structure of $\text{A}_7\text{Ga}_2\text{Sb}_6$ (A=Sr, Ba, Eu). <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1909-1914	3.3	18
136	Synthesis, crystal structures, and physical properties of the new Zintl phases $\text{A}_{21}\text{Zn}_4\text{Pn}_{18}$ (A=Ca, Eu; Pn=As, Sb) Versatile arrangements of $[\text{ZnPn}_4]$ tetrahedra. <i>Journal of Solid State Chemistry</i> , 2015 , 227, 204-211	3.3	17
135	Gallium Pnictides of the Alkaline Earth Metals, Synthesized by Means of the Flux Method: Crystal Structures and Properties of CaGa_2Pn_2 , SrGa_2As_2 , $\text{Ba}_2\text{Ga}_5\text{As}_5$, and $\text{Ba}_4\text{Ga}_5\text{Pn}_8$ (Pn = P or As). <i>European Journal of Inorganic Chemistry</i> , 2011 , 2011, 4025-4036	2.3	17
134	Novel ternary alkaline-earth and rare-earth metal antimonides from gallium or indium flux. Synthesis, structural characterization and ^{121}Sb and ^{151}Eu Mössbauer spectroscopy of the series $\text{A}_7\text{Ga}_8\text{Sb}_8$ (A = Sr, Ba, Eu) and $\text{Ba}_7\text{In}_8\text{Sb}_8$. <i>Dalton Transactions</i> , 2010 , 39, 6049-55	4.3	17
133	Nickel deficiency in RENi_2P_2 (RE=La, Ce, Pr). Combined crystallographic and physical property studies. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 1473-1480	3.3	17
132	Structure and properties of Gd_3Ge_4 : the orthorhombic RE_3Ge_4 structures revisited (RE = Y, Tb-Tm). <i>Inorganic Chemistry</i> , 2007 , 46, 8690-7	5.1	17
131	$\text{Cs}_7\text{In}_4\text{Bi}_6$: A Zintl Phase Tailored from the PbO -Type Layers of the Parent InBi Compound. <i>Inorganic Chemistry</i> , 1999 , 38, 2672-2675	5.1	17
130	Rare-Earth Metal Substitutions in $\text{Ca}_9\text{RE}_x\text{Mn}_4\text{Sb}_9$ (RE = La-Nd, Sm; $x \in [1]$). Synthesis and Characterization of a New Series of Narrow-Gap Semiconductors. <i>Chemistry of Materials</i> , 2018 , 30, 3518-3527	9.6	16
129	Undeca-europium hexa-zinc dodeca-arsenide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, i24		16
128	Polymorphism in binary rare-earth metal germanides. Synthesis, structure and properties of the new hexagonal forms of Tb_3Ge_5 and Dy_3Ge_5 . <i>Journal of Alloys and Compounds</i> , 2009 , 488, 533-537	5.7	16

- 127 Synthesis, crystal structure and physical properties of the solid solutions $\text{Ca}_{14}\text{RE}_x\text{CdSb}_{11}$ (RE = La, Nd, Sm, Gd, Yb, x = 0.85 \pm 0.15). *Journal of Applied Physics*, **2019**, 125, 245101 2.5 15
- 126 Synthesis and structure of $\text{Sr}_{14}\text{Zn}_{1+x}\text{As}_{11}$ and $\text{Eu}_{14}\text{Zn}_{1+x}\text{As}_{11}$ (x = 0.5). New members of the family of pnictides isotypic with $\text{Ca}_{14}\text{AlSb}_{11}$, exhibiting a new type of structural disorder. *Journal of Solid State Chemistry*, **2019**, 280, 120990 3.3 14
- 125 Non-stoichiometric compositions arising from synergistic electronic and size effects. Synthesis, crystal chemistry and electronic properties of $\text{A}_{14}\text{Cd}_{1+x}\text{Pn}_{11}$ compounds (0 \leq x \leq 0.3; A = Sr, Eu; Pn = As, Sb). *Journal of Materials Chemistry C*, **2015**, 3, 10388-10400 7.1 14
- 124 Synthesis and crystal chemistry of new ternary pnictides containing lithium—adding structural complexity one step at a time. *Dalton Transactions*, **2014**, 43, 16889-901 4.3 14
- 123 New Compounds with $[\text{As}_7]_3$ Clusters: Synthesis and Crystal Structures of the Zintl Phases Cs_2NaAs_7 , $\text{Cs}_4\text{ZnAs}_{14}$ and $\text{Cs}_4\text{CdAs}_{14}$. *Crystals*, **2011**, 1, 87-98 2.3 14
- 122 Synthesis, crystal and electronic structures of the new quaternary phases $\text{A}_5\text{Cd}_2\text{Sb}_5\text{F}$ (A = Sr, Ba, Eu), and $\text{Ba}_5\text{Cd}_2\text{Sb}_5\text{O}(x)$ (0.5). *Dalton Transactions*, **2010**, 39, 11335-43 4.3 14
- 121 Synthesis and structural characterization of $\text{A}_3\text{In}_2\text{Ge}_4$ and $\text{A}_5\text{In}_3\text{Ge}_6$ (A=Ca, Sr, Eu, Yb) new intermetallic compounds with complex structures, exhibiting Ge-Ge and In-In bonding. *Journal of Solid State Chemistry*, **2010**, 183, 1258-1265 3.3 14
- 120 The layered antimonides RELi_3Sb_2 (RE=Ce, Nd, Sm, Gd, Ho). Filled derivatives of the CaAl_2Si_2 structure type. *Journal of Solid State Chemistry*, **2014**, 210, 89-95 3.3 13
- 119 New ternary phosphides and arsenides. Syntheses, crystal structures, physical properties of Eu_2ZnP_2 , $\text{Eu}_2\text{Zn}_2\text{P}_3$ and $\text{Eu}_2\text{Cd}_2\text{As}_3$. *Journal of Solid State Chemistry*, **2013**, 205, 116-121 3.3 13
- 118 Synthesis, Crystal and Electronic Structures of the Pnictides AE_3TrPn_3 (AE = Sr, Ba; Tr = Al, Ga; Pn = P, As). *Crystals*, **2015**, 5, 433-446 2.3 13
- 117 Ternary $\text{K}_2\text{Zn}_5\text{As}_4$ -type pnictides $\text{Rb}_2\text{Cd}_5\text{As}_4$ and $\text{Rb}_2\text{Zn}_5\text{Sb}_4$, and the solid solution $\text{Rb}_2\text{Cd}_5(\text{As,Sb})_4$. *Acta Crystallographica Section C: Crystal Structure Communications*, **2013**, 69, 455-9 13
- 116 Synthesis, structure and physical properties of the new uranium ternary phase $\text{U}_3\text{Co}_2\text{Ge}_7$. *Journal of Solid State Chemistry*, **2007**, 180, 2830-2837 3.3 13
- 115 New n-Type Zintl Phases for Thermoelectrics: Discovery, Structural Characterization, and Band Engineering of the Compounds A_2CdP_2 (A = Sr, Ba, Eu). *Chemistry of Materials*, **2020**, 32, 10697-10707 9.6 12
- 114 Synthesis, Crystal and Electronic Structure of the Titanium Bismuthides $\text{Sr}_5\text{Ti}_{12}\text{Bi}_{19+x}$, $\text{Ba}_5\text{Ti}_{12}\text{Bi}_{19+x}$, and $\text{Sr}_5\text{Eu}_x\text{Ti}_{12}\text{Bi}_{19+x}$ (x = 0.5, 1.0; 1.4, 4.0). *European Journal of Inorganic Chemistry*, **2018**, 2018, 1266-1274 2.3 12
- 113 Yet again, new compounds found in systems with known binary phase diagrams. Synthesis, crystal and electronic structure of NdBi and SmBi . *Chemical Communications*, **2018**, 54, 7089-7092 5.8 12
- 112 New Type-I and Type-II Clathrates in the Systems $\text{Cs}_x\text{Na}_y\text{Ga}_z\text{Bi}$, $\text{Rb}_x\text{Na}_y\text{Ga}_z\text{Bi}$, and $\text{Rb}_x\text{Na}_y\text{Zn}_z\text{Bi}$. *Inorganics*, **2014**, 2, 79-95 2.9 12
- 111 K and Ba distribution in the structures of the clathrate compounds $\text{K}(x)\text{Ba}(16-x)(\text{Ga,Sn})_{136}$ (x = 0.8, 4.4, and 12.9) and $\text{K}(x)\text{Ba}(8-x)(\text{Ga,Sn})_{46}$ (x = 0.3). *Acta Crystallographica Section C: Crystal Structure Communications*, **2013**, 69, 319-23 12
- 110 On the existence of Ca_2Bi -crystal and electronic structure of $\text{Ca}_4\text{Bi}_2\text{O}$. *Journal of Alloys and Compounds*, **2007**, 427, 67-72 5.7 12

109	Observation of an Unexpected n-Type Semiconducting Behavior in the New Ternary Zintl Phase Eu ₃ InAs ₃ . <i>Chemistry of Materials</i> , 2020 , 32, 9616-9626	9.6	12
108	Structural modulations in the rare-earth metal digermanides REAl _{1-x} Ge ₂ (RE = Gd-Tm, Lu, Y; 0.8 Inorganic Chemistry, 2015 , 54, 722-32	5.1	11
107	Niobium-bearing arsenides and germanides from elemental mixtures not involving niobium: a new twist to an old problem in solid-state synthesis. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 623-627	0.8	11
106	Crystal structures of the four new quaternary copper(I)-selenides A _{0.5} CuZrSe ₃ and ACuYSe ₃ (A=Sr, Ba). <i>Journal of Solid State Chemistry</i> , 2016 , 242, 14-20	3.3	11
105	The RELixSn ₂ (RE=La, Nd, Sm, and Gd; 0.8). <i>Journal of Solid State Chemistry</i> , 2014 , 211, 95-105	3.3	11
104	New Lithium-Containing Pnictides with 1-D Infinite Chains of Supertetrahedral Clusters: Synthesis, Crystal and Electronic Structure of Ba ₄ Li ₂ Cd ₃ Pn ₆ (Pn = P, As and Sb). <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 5113-5124	2.3	11
103	Eleven new compounds in the RE ₂ CdGe ₂ systems (RE=Pr, Nd, Sm, Gd, Yb; Y): Crystal chemistry of the RE ₂ CdGe ₂ series. <i>Journal of Solid State Chemistry</i> , 2012 , 192, 16-22	3.3	11
102	Five Ternary Zintl Phases in the Systems Alkali-Metal-Bismuth. <i>Journal of Solid State Chemistry</i> , 2002 , 163, 436-448	3.3	11
101	Synthesis, characterization and bonding of Ba ₃ Li ₄ Sn ₈ . <i>Journal of Alloys and Compounds</i> , 2002 , 338, 87-92; 7	11	
100	Exploratory Work in the Quaternary System of Ca ₂ Eu ₂ Cd ₂ Sb ₂ : Synthesis, Crystal, and Electronic Structures of New Zintl Solid Solutions. <i>Materials</i> , 2018 , 11,	3.5	11
99	On the effect of Ga and In substitutions in the CaBi and YbBi bismuthides crystallizing in the tetragonal HoGe structure type. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 269-273 ^{0.8}	11	
98	Experimental and Computational Study of the Lithiation of BaAl ₂ Ge Based Type I Germanium Clathrates. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 37981-37993	9.5	11
97	Undistorted linear Bi chains with hypervalent bonding in LaTiBi from single-crystal X-ray diffraction. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 618-622	0.8	10
96	Correlations between chemical bonding and magnetic exchange interactions: synthesis, crystal structures, and magnetic properties of the new family RE ₂ AlGe ₂ (RE = Tb-Tm, Lu). <i>Inorganic Chemistry</i> , 2013 , 52, 5307-15	5.1	10
95	Several New Phases in RE ₂ MgGe Systems (RE = Rare Earth Metal) Syntheses, Structures, and Chemical Bonding. <i>European Journal of Inorganic Chemistry</i> , 2012 , 2012, 4141-4148	2.3	10
94	Sr ₁₁ InSb ₉ grown from molten In. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007 , 63, i178-i178	10	
93	Temperature-dependent crystallographic studies and electronic structure of Ba ₂ Cd ₃ Bi ₄ . <i>Journal of Solid State Chemistry</i> , 2006 , 179, 3371-3377	3.3	10
92	Synthesis and structural characterization of the new Zintl phases Ba ₃ Cd ₂ P ₄ and Ba ₂ Cd ₂ P ₃ . Rare example of small gap semiconducting behavior with negative thermopower within the range 300 K-400 K. <i>Journal of Solid State Chemistry</i> , 2020 , 289, 121476	3.3	9

91	Synthesis, crystal and electronic structures of the new Zintl phases Ba ₃ Al ₃ Pn ₅ (Pn = P, As) and Ba ₃ Ga ₃ P ₅ . <i>Inorganic Chemistry</i> , 2013 , 52, 499-505	5.1	9
90	Ternary Compounds in the Sn-Rich Section of the Ba ₃ Al ₃ Sn System: Ba ₈ Ga ₁₆ Sn _{30+x} (1.1 ≤ x ≤ 2.8) Clathrates of Type-I and Type-VIII, and BaGa ₂ Sn _{4+x} (x ≤ 2) with a Clathrate-like Structure. <i>Crystals</i> , 2011 , 1, 145-162	2.3	9
89	Structural chemistry and magnetic properties of RE ₂ [Sn _x Ge _{1-x}] ₅ (RE=Nd, Sm) and RE[Sn _x Ge _{1-x}] ₂ (RE=Gd, Tb): Four new rare-earth metal intermetallic compounds with germanium zig-zag chains and tin square-nets. <i>Journal of Alloys and Compounds</i> , 2009 , 488, 511-517	5.7	9
88	The new Zintl phases Eu ₂₁ Cd ₄ Sb ₁₈ and Eu ₂₁ Mn ₄ Sb ₁₈ . <i>Journal of Solid State Chemistry</i> , 2016 , 238, 303-310	3.10	8
87	Synthesis and structural characterization of RE ₇ Zn ₂₁ Tt ₂ (RE = La-Nd; Tt = Ge, Sn, and Pb): new structure type among the polar intermetallic phases. <i>Inorganic Chemistry</i> , 2013 , 52, 12731-40	5.1	8
86	Synthesis, structural characterization and properties of SrAl ₄ Gex, BaAl ₄ Gex, and EuAl ₄ Gex (x=0.30.4) Rare examples of electron-rich phases with the BaAl ₄ structure type. <i>Journal of Solid State Chemistry</i> , 2013 , 205, 21-28	3.3	8
85	Abnormal thermal expansion, multiple transitions, magnetocaloric effect, and electronic structure of Gd ₆ Co _{4.85} . <i>Journal of Applied Physics</i> , 2015 , 118, 133903	2.5	8
84	Synthesis and Crystal Structures of the Quaternary Zintl Phases RbNa ₈ Ga ₃ Pn ₆ (Pn = P, As) and Na ₁₀ NbGaAs ₆ . <i>Crystals</i> , 2012 , 2, 213-223	2.3	8
83	New polar intermetallic phases RE ₂ Zn ₅ Tt (RE = La-Nd; Tt = Sn and Pb): synthesis, structure, chemical bonding, and magnetic properties. <i>Inorganic Chemistry</i> , 2013 , 52, 9102-10	5.1	8
82	Structural Characterization of the Intermetallic Phase EuZn _x In _{4-x} (x = 1.1-1.2). Zn and In Site-Preferences in the BaAl ₄ Structure-Type from Computational Analysis. <i>Bulletin of the Korean Chemical Society</i> , 2013 , 34, 1656-1662	1.2	8
81	Ca ₁₄ AlBi ₁₁ new Zintl phase from earth-abundant elements with a great potential for thermoelectric energy conversion. <i>Materials Today Advances</i> , 2020 , 7, 100094	7.4	8
80	Ultralow Thermal Conductivity and High Thermopower in a New Family of Zintl Antimonides Ca ₁₀ MSb ₉ (M = Ga, In, Mn, Zn) with Complex Structures and Heavy Disorder. <i>Chemistry of Materials</i> , 2021 , 33, 3172-3186	9.6	8
79	Layered Quaternary Germanides-Synthesis and Crystal and Electronic Structures of AELiInGe (AE = Sr, Ba, Eu). <i>Inorganic Chemistry</i> , 2019 , 58, 7895-7904	5.1	7
78	New insights into the application of the valence rules in Zintl phases Crystal and electronic structures of Ba ₇ Ga ₄ P ₉ , Ba ₇ Ga ₄ As ₉ , Ba ₇ Al ₄ Sb ₉ , Ba ₆ CaAl ₄ Sb ₉ , and Ba ₆ CaGa ₄ Sb ₉ . <i>Journal of Solid State Chemistry</i> , 2016 , 236, 116-122	3.3	7
77	Quaternary pnictides with complex, noncentrosymmetric structures. Synthesis and structural characterization of the new Zintl phases Na ₁₁ Ca ₂ Al ₃ Sb ₈ , Na ₄ CaGaSb ₃ , and Na ₁₅ Ca ₃ In ₅ Sb ₁₂ . <i>Inorganic Chemistry</i> , 2015 , 54, 1931-9	5.1	7
76	New rare-earth metal germanides with bismuth substitution. Synthesis, structural variations, and magnetism of the RE[BixGe _{1-x}] ₂ (RE=Y, Pr, Nd, Sm, Gd, Lu) compounds. <i>Journal of Solid State Chemistry</i> , 2012 , 196, 586-595	3.3	7
75	Zinc-deficiency in intermetallics with the NaZn ₁₃ type. <i>Journal of Alloys and Compounds</i> , 2008 , 463, 119-123	5.7	7
74	High-pressure investigation of the heavy-fermion antiferromagnet U ₃ Ni ₅ Al ₁₉ . <i>Physical Review B</i> , 2005 , 71,	3.3	7

73	Synthesis, and Crystal and Electronic Structures, of the Titanium-Rich Bismuthides AETiBi (AE = Sr, Ba, Eu). <i>Inorganic Chemistry</i> , 2019 , 58, 2934-2941	5.1	7
72	Synthesis and Structural Characterization of Ba ₇ Li ₁₁ Bi ₁₀ and AE ₄ (Li,Tr) ₇ Pn ₆ (AE = Sr, Ba, Eu; Tr = Ga, In; Pn = Sb, Bi). <i>Inorganics</i> , 2018 , 6, 109	2.9	7
71	Synthesis and structural characterization of the Zintl phases Na ₃ Ca ₃ TrPn ₄ , Na ₃ Sr ₃ TrPn ₄ , and Na ₃ Eu ₃ TrPn ₄ (Tr=Al, Ga, In; Pn=P, As, Sb). <i>Journal of Solid State Chemistry</i> , 2017 , 249, 160-168	3.3	6
70	Multifaceted Sn-Sn bonding in the solid state. Synthesis and structural characterization of four new Ca-Li-Sn compounds. <i>Dalton Transactions</i> , 2019 , 48, 14398-14407	4.3	6
69	An Unusual Triple-Decker Variant of the Tetragonal BaAl-Structure Type: Synthesis, Structural Characterization, and Chemical Bonding of SrCdGe and EuCdGe. <i>Inorganic Chemistry</i> , 2018 , 57, 833-842	5.1	6
68	On the nature of Ge-Pb bonding in the solid state. Synthesis, structural characterization, and electronic structures of two unprecedented germanide-plumbides. <i>Journal of the American Chemical Society</i> , 2012 , 134, 12708-16	16.4	6
67	Copper and Zinc Substitutions in Clathrates of Tin: Synthesis, Structural Characterization, and Physical Properties of A ₈ Cu _{2.67} Sn _{43.33} and A ₈ Zn ₄ Sn ₄₂ (A = K, Rb, Cs) with the Type-I Structure. <i>Chemistry of Materials</i> , 2013 , 25, 3737-3744	9.6	6
66	Magnetic order and heavy fermion behavior in CePd _{1+x} Al ₆ : Synthesis, structure, and physical properties. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 707-711	3.3	6
65	Antiferromagnetic order and evolution of magnetic entropy in RE ₄ Zn ₅ Ge ₆ (RE=Y, Gd, Lu). <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 299, 87-93	2.8	6
64	Magnetic mixed valent semimetal EuZnSb ₂ with Dirac states in the band structure. <i>Physical Review Research</i> , 2020 , 2,	3.9	6
63	Bismuth as a Reactive Solvent in the Synthesis of Multicomponent Transition-Metal-Bearing Bismuthides. <i>Inorganic Chemistry</i> , 2020 , 59, 3459-3470	5.1	6
62	The series RE ₅ Li ₂ Sn ₇ (RE = Ce, Pr, Nd, Sm) revisited: crystal structure of RE ₅ Li _{2-x} Sn _{7+x} [0 ≤ x ≤ 0.03 (1)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014 , 70, 2-6	0.8	5
61	Dimorphism in La ₅ Ge ₃ and Ce ₅ Ge ₃ ? How Exploratory Syntheses Led to Surprising New Finds in the La ₅ Ge and Ce ₅ Ge Binary Phase Diagrams. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2014 , 640, 805-813	1.3	5
60	Indium Doping in BaSn ₃ In _x (0 ≤ x ≤ 0.2) with Ni ₃ Sn Structure. <i>Crystals</i> , 2011 , 1, 104-111	2.3	5
59	One Structure, Two Elements-LuGe Superconductor vs Ordinary Metallic Conductor LuSn. A Case Study on How Site-Selective Germanium for Tin Atom Substitution Leads to Modulating of the Charge Distribution. <i>Inorganic Chemistry</i> , 2020 , 59, 16853-16864	5.1	5
58	Complex Structural Disorder in the Zintl Phases YbMnSb and YbMnSb. <i>Inorganic Chemistry</i> , 2021 , 60, 6702-6711	5.1	5
57	Structural analysis of GdFeBi from single-crystal X-ray diffraction methods and electronic structure calculations. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 562-567	0.8	5
56	Synthesis, crystal structures and chemical bonding of RE(5-x)Li(x)Ge ₄ (RE = Nd, Sm and Gd; x ? 1) with the orthorhombic Gd ₅ Si ₄ type. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1-4		4

55	Rare-earth metal gallium silicides via the gallium self-flux method. Synthesis, crystal structures, and magnetic properties of RE(Ga _{1-x} Si _x) ₂ (RE=Y, La, Nd, Sm, Gd, Tb, Lu). <i>Journal of Solid State Chemistry</i> , 2013 , 201, 191-203	3.3	4
54	On the possibility for Rb- and Eu-cation ordering in type-I clathrates: synthesis and homogeneity range of the novel compounds Rb(8-x)Eu(x)(In,Ge) ₄₆ (0.6 ≤ x ≤ 1.8). <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2013 , 69, 1457-61		4
53	Gallium/In mixing in BaGa ₄ Sn _x [x= 0.89 (2)] with the BaAl ₄ structure type. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007 , 63, i35-i37		4
52	Synthesis, structural characterization, and electronic structure of the novel Zintl phase BaZnP. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 869-873	0.8	4
51	Understanding the Amorphous Lithiation Pathway of the Type I Ba ₈ Ge ₄₃ Clathrate with Synchrotron X-ray Characterization. <i>Chemistry of Materials</i> , 2020 , 32, 9444-9457	9.6	4
50	Structural Origin of Reversible Li Insertion in Guest-Free, Type-II Silicon Clathrates. <i>Advanced Energy and Sustainability Research</i> , 2021 , 2, 2000114	1.6	4
49	Synthesis and Structural Characterization of the New Clathrates K ₂ Ge ₄₆ , Rb ₂ Ge ₄₆ , and Cs ₂ Ge ₄₆ . <i>Materials</i> , 2016 , 9,	3.5	4
48	The Zintl phases InAs (A = Ca, Sr, Ba): new topological insulators and thermoelectric material candidates. <i>Dalton Transactions</i> , 2021 , 50, 9173-9184	4.3	4
47	Synthesis and structural characterization of RE ₆ Cd ₂₃ T (RE=La, Nd; T=Sn, Sb, Pb, and Bi). <i>Journal of Solid State Chemistry</i> , 2017 , 246, 203-208	3.3	3
46	Synthesis and structure determination of seven ternary bismuthides: crystal chemistry of the RELi ₃ Bi ₂ family (RE = La-Nd, Sm, Gd, and Tb). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2015 , 71, 894-9	0.8	3
45	Synthesis and Structural Characterization of Ca ₁₄ NbxIn _{1-x} As ₁₁ (x ≤ 0.85). <i>Solid State Phenomena</i> , 2016 , 257, 147-151	0.4	3
44	Tunable Magnetic Exchange between Rare-Earth Metal 5d and Iron 3d States: A Case Study of the Multiple Magnetic Transitions in Gd ₆ FeBi ₂ and the Solid Solutions Dy _{6-x} Gd _x FeBi ₂ (1 ≤ x ≤ 5) with Curie Temperatures in the Range 120-50 K. <i>Chemistry of Materials</i> , 2020 , 32, 3087-3096	9.6	3
43	On the structures of the rare-earth metal germanides from the series REAlGe (RE = Nd, Sm, Gd, Tb, Dy, Ho; 0.6 Dalton Transactions, 2017 , 46, 9253-9265	4.3	3
42	Experimental and theoretical investigations of the novel ternary compound Ca ₄ InGe ₄ . <i>Dalton Transactions</i> , 2012 , 41, 12446-51	4.3	3
41	Ba ₅ Cd ₂ Sb ₄ O ₂₃ A New Antimonide Oxide with a Complex Structure. <i>Crystals</i> , 2011 , 1, 206-214	2.3	3
40	Dyterbium(II) lithium indium(III) digermanide, Yb(2)LiInGe(2). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, i43		3
39	Dibarium tricadmium bis-muthide(-I,-III) oxide, Ba(2)Cd(3-1)Bi(3)O. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010 , 66, i81		3
38	Structural diversity of the Zintl pnictides with rare-earth metals. <i>Fundamental Theories of Physics</i> , 2021 , 227-324	0.8	3

37	Caught in Action. The Late Rare Earths Thulium and Lutetium Substituting Aluminum Atoms in the Structure of CaAlBi. <i>Journal of the American Chemical Society</i> , 2021 , 143, 65-68	16.4	3
36	Solid-State Electrochemical Synthesis of Silicon Clathrates Using a Sodium-Sulfur Battery Inspired Approach. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 020516	3.9	3
35	Crystal structure of the layered arsenide RbCuAs. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2018 , 74, 1715-1718	0.8	3
34	Two Polymorphs of BaZnP: Crystal Structures, Phase Transition, and Transport Properties. <i>Inorganic Chemistry</i> , 2021 , 60, 14426-14435	5.1	3
33	Intricate Li-Sn Disorder in Rare-Earth Metal-Lithium Stannides. Crystal Chemistry of RELiSn (RE = La-Nd, Sm; x Inorganic Chemistry, 2018 , 57, 5632-5641	5.1	2
32	Cu and Zn Substituted Silicon Clathrates with the Cubic Type-II Structure: Synthesis and Characterization of Cs ₈ Na ₁₆ Cu _{3.8} Si _{132.2} and Cs ₈ Na ₁₆ Zn _{6.9} Si _{129.1} . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2017 , 643, 1874-1880	1.3	2
31	Synthesis and Structural Characterization of ACu ₉ Tt ₄ (A = Ca, Sr, Ba, Eu; Tt = Si, Ge, Sn) □ Tetragonally Distorted Ternary Variants of the Cubic NaZn ₁₃ Structure Type. Improved Structure Refinement of SrCu ₂ Ge ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2012 , 638, 1204-1211	1.3	2
30	Penta-europium dicadmium penta-anti-monide oxide, Eu(5)Cd(2)Sb(5)O. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2011 , 67, i11		2
29	Synthesis and structural characterization of novel clathrate-II compounds of silicon 2006 ,		2
28	Synthesis and Characterization of Large Single Crystals of Silicon and Germanium Clathrate-II Compounds and a New Tin Compound with Clathrate Layers. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 626, 1351		2
27	Data from the electronic band structures of several Zintl phases with group 15 elements and the transition metals. <i>Data in Brief</i> , 2019 , 22, 446-450	1.2	2
26	Synthesis and structure determination of CeCdTe: a new chalcogen-containing member of the RECdT family (RE is a rare-earth metal and T is a late group 14, 15 and 16 element). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2017 , 73, 121-125	0.8	1
25	Cu ₃ Ru ₆ Sb ₈ new ternary antimonide with a new structure type. <i>Inorganic Chemistry Frontiers</i> , 2016 , 3, 1616-1623	6.8	1
24	Calcium substitution in rare-earth metal germanides with the hexagonal Mn ₅ Si ₃ structure type. structural characterization of the extended series RE ₅ CaxGe ₃ (RE=Rare-earth metal). <i>Journal of Solid State Chemistry</i> , 2014 , 217, 142-149	3.3	1
23	Synthesis and crystal structures of RE ₇ Zn(21+x)Si(2-x) [RE = Ce, Pr, and Nd; 0.09 (1) Acta Crystallographica Section C, Structural Chemistry, 2014 , 70, 945-8	0.8	1
22	A density-functional study of the balance of magnetic exchange interactions in CaMn ₂ Sb ₂ and SrMn ₂ Sb ₂ . <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2006 , 632, 2108-2108	1.3	1
21	Ta _{1.40(1)} Mn _{4.60(1)} Si ₅ : distribution of the Ta and Mn atoms. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006 , 62, i69-i71		1
20	Magnetic frustration in a metallic fcc lattice. <i>Physical Review Research</i> , 2020 , 2,	3.9	1

19	Synthesis and Transport Properties of the Family of Zintl Phases Ca_3RESb_3 (RE = La, Nd, Sm, Gd, Er, Lu): Exploring the Roles of Crystallographic Disorder and Core 4f Electrons for Enhancing Thermoelectric Performance. <i>Chemistry of Materials</i> ,	9.6	1
18	Single crystal growth and characterization of new Zintl phase $\text{Ca}_9\text{Zn}_{3.1}\text{In}_{0.9}\text{Sb}_9$. <i>Journal of Solid State Chemistry</i> , 2021 , 296, 121947	3.3	1
17	Synthesis and structural characterization of the type-I clathrates KAlSn and RbAlSn ($x \approx 6.4-9.7$). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019 , 75, 1535-1540	0.8	1
16	Structural and Electrochemical Properties of Type VIII BaGaSn Clathrate (VIII) during Lithiation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42564-42578	9.5	1
15	Transport properties and thermal behavior of YbMnSb_2 semimetal above room temperature. <i>Journal of Solid State Chemistry</i> , 2021 , 303, 122467	3.3	1
14	Polaronic Conductivity in $\text{Cr}_2\text{Ge}_2\text{Te}_6$ Single Crystals. <i>Advanced Functional Materials</i> , 2105111	15.6	1
13	The Highly Disordered Zintl Phase $\text{Ca}_{10}\text{GdCdSb}_9$ [New Example of a p-type Semiconductor with Remarkable Thermoelectric Properties. <i>Materials Today Physics</i> , 2022 , 100725	8	1
12	On the New Oxyarsenides $\text{Eu}_5\text{Zn}_2\text{As}_5\text{O}$ and $\text{Eu}_5\text{Cd}_2\text{As}_5\text{O}$. <i>Crystals</i> , 2020 , 10, 475	2.3	0
11	Exploration of Multi-Component Vanadium and Titanium Pnictides Using Flux Growth and Conventional High-Temperature Methods. <i>Frontiers in Chemistry</i> , 2019 , 7, 909	5	0
10	Structural Uniqueness of the $[\text{Nb}(\text{As})]$ Cluster in the Zintl Phase CsNbAs . <i>Journal of Physical Chemistry A</i> , 2021 , 125, 4323-4333	2.8	0
9	Synthesis and structural characterization of orthorhombic Cu_3Sb (III.1) and hexagonal $\text{Cu}_3\text{Sb}_{1-x}\text{In}_x$ ($x \approx 0.2$) phases. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2021 , 236, 61-70	1	0
8	Electrochemical Lithium Alloying Behavior of Guest-Free Type II Silicon Clathrates. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19110-19118	3.8	0
7	Synthesis, Structural Characterization and Chemical Bonding of $\text{Sr}_7\text{Li}_6\text{Sn}_{12}$ and its Quaternary Derivatives with Eu and Alkaline Earth Metal (Mg, Ca, Ba) Substitutions. A Tale of Seven Li-Containing Stannides and Two Complex Crystal Structures. <i>European Journal of Inorganic Chemistry</i> , 2020 , 2020, 1979-1988	2.3	
6	Studied and Forgotten. A Fresh Look at the LiMnTe System. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2020 , 646, 1195-1204	1.3	
5	Complex Disorder in Type-I Clathrates: Synthesis and Structural Characterization of $\text{A}_8\text{GaxSn}_{46}$ (A = Rb, Cs; 6.9 Crystals, 2020 , 10, 298	2.3	
4	Electronic stabilization by occupational disorder in the ternary bismuthide LiInBi ($x \approx 0.14$, $y \approx 0.29$). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020 , 76, 585-590	0.8	
3	Chemical Bonding and Structural Relationships in Extended Solids 2021 , 19-47		
2	Crystal Chemistry of $\text{RE}_6\text{Mg}_x\text{Cd}_{23-x}\text{Pb}$ [0.6(1) \times 13.2(1); RE = La and Ce]. New Mixed-Metal Derivatives of the $\text{RE}_6\text{Cd}_{23}\text{T}$ Phases (T = Group 14/15/16 Element). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2018 , 644, 1734-1740	1.3	

- 1 The structure of CeAlGe refined for the first time from single-crystal X-ray diffraction data. *Acta Crystallographica Section C, Structural Chemistry*, **2021**, 77, 81-83 0.8