

Sviatoslav Baranets

List of Publications by Year in descending order

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113
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270111

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docs citations

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times ranked

1048
citing authors

#	ARTICLE	IF	CITATIONS
19	Bismuth as a Reactive Solvent in the Synthesis of Multicomponent Transition-Metal-Bearing Bismuthides. <i>Inorganic Chemistry</i> , 2020, 59, 3459-3470.	1.9	13
20	Observation of an Unexpected <i>n</i> -Type Semiconducting Behavior in the New Ternary Zintl Phase Eu_3InAs_3 . <i>Chemistry of Materials</i> , 2020, 32, 9616-9626.	3.2	23
21	$\text{Ca}_{14}\text{AlBi}_{11}$ —a new Zintl phase from earth-abundant elements with a great potential for thermoelectric energy conversion. <i>Materials Today Advances</i> , 2020, 7, 100094.	2.5	14
22	New <i>n</i> -Type Zintl Phases for Thermoelectrics: Discovery, Structural Characterization, and Band Engineering of the Compounds A_2CdP_2 (A = Sr, Ba, Eu). <i>Chemistry of Materials</i> , 2020, 32, 10697-10707.	3.2	21
23	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 Containing Stannides and Two Complex Crystal Structures. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 1979-1988.	1.0	0
24	Synthesis and structural characterization of the new Zintl phases $\text{Ba}_3\text{Cd}_2\text{P}_4$ and $\text{Ba}_2\text{Cd}_2\text{P}_3$. Rare example of small gap semiconducting behavior with negative thermopower within the range 300–700 K. <i>Journal of Solid State Chemistry</i> , 2020, 289, 121476.	1.4	15
25	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.	1.0	3
26	Complex Disorder in Type-I Clathrates: Synthesis and Structural Characterization of $\text{A}_8\text{GaxSn}_{46-x}$ (A = Tl, Pb, Bi, Sb, Sn, Te, Se, S, Te, Se, S). <i>Chemistry of Materials</i> , 2020, 32, 10697-10707.	1.0	0
27	Magnetic mixed valent semimetal EuZnSb with Dirac states in the band structure. <i>Physical Review Research</i> , 2020, 2, .		
28	Synthesis, structural characterization, and electronic structure of the novel Zintl phase Ba_2ZnP_2 . <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 869-873.	0.2	6
29	Electronic stabilization by occupational disorder in the ternary bismuthide $\text{Li}_3\text{In}_x\text{Bi}_{1-x}$ (x = 0.14, 0.29). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2020, 76, 585-590.	0.2	0
30	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 $\text{Eu}_5\text{In}_2\text{As}_6$. <i>Journal of Solid State Chemistry</i> , 2019, 278, 120889.	1.4	35
31	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, Er, Ho, Dy, Y, Lu, Sc, Ti, Zr, Hf, Ta, Nb, Mo, W, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, In, Sn, Pb, Bi, Sb, Sn, Te, Se, S). <i>Journal of Applied Physics</i> , 2020, 123, 085101.		
32	Synthesis and structure of $\text{Sr}_{14}\text{Zn}_1+\text{As}_{11}$ and $\text{Eu}_{14}\text{Zn}_1+\text{As}_{11}$ (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. <i>Journal of Solid State Chemistry</i> , 2019, 280, 120990.	1.4	18
33	Layered Quaternary Germanides—Synthesis and Crystal and Electronic Structures of $\text{AE}_2\text{In}_2\text{Ge}_2$ (AE = Tl, Pb, Bi, Sb, Sn, Te, Se, S). <i>Chemistry of Materials</i> , 2020, 32, 10697-10707.	1.9	14
34	From the Ternary Phase $\text{Ca}_{14}\text{Zn}_1+\text{Sb}_{11}$ ($x = 0.4$) to the Quaternary Solid Solutions $\text{Ca}_{14}\text{RE}_x\text{ZnSb}_{11}$ (RE = La, Nd, Sm, Gd, Yb, Er, Ho, Dy, Y, Lu, Sc, Ti, Zr, Hf, Ta, Nb, Mo, W, Cr, Mn, Fe, Co, Ni, Cu, Zn, Ga, In, Sn, Pb, Bi, Sb, Sn, Te, Se, S). <i>Inorganic Chemistry</i> , 2019, 58, 8506-8516.	1.9	25
35	Synthesis and structural characterization of the type-I clathrates $\text{K}_8\text{Al}_x\text{Sn}_{46-x}$ and $\text{Rb}_8\text{Al}_x\text{Sn}_{46-x}$ (x = 6.4–9.7). <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2019, 75, 1535-1540.	0.2	1
36	Synthesis, and Crystal and Electronic Structures, of the Titanium-Rich Bismuthides $\text{AE}_3\text{Ti}_8\text{Bi}_{10}$ (AE = Sr, Ba, Eu). <i>Inorganic Chemistry</i> , 2019, 58, 2934-2941.	1.9	9

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37	Data from the electronic band structures of several Zintl phases with group 15 elements and the transition metals. Data in Brief, 2019, 22, 446-450.	0.5	2
38	Zintl phases with group 15 elements and the transition metals: A brief overview of pnictides with diverse and complex structures. Journal of Solid State Chemistry, 2019, 270, 346-359.	1.4	76
39	Exploration of Multi-Component Vanadium and Titanium Pnictides Using Flux Growth and Conventional High-Temperature Methods. Frontiers in Chemistry, 2019, 7, 909.	1.8	2
40	Rare-Earth Metal Substitutions in $\text{Ca}_{9-x}\text{RE}_x\text{Mn}_4\text{Sb}_9$ ($\text{RE} = \text{Tj, Er, Gd, Tb, Dy, Ho, Er, Gd, Tb, Dy, Ho}$) Overlaid Semiconductors. Chemistry of Materials, 2018, 30, 3518-3527.	3.2	20
41	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 $\text{Sr}_5\text{EuTi}_{12}\text{Bi}_{19+x}$ ($x = 0.5-1.0$; $\text{Ti} = 2.4, 4.0$). European Journal of Inorganic Chemistry, 2018, 2018, 1266-1274.	1.0	17
42	An Unusual Triple-Decker Variant of the Tetragonal BaAl_4 -Structure Type: Synthesis, Structural Characterization, and Chemical Bonding of $\text{Sr}_3\text{Cd}_8\text{Ge}_4$ and $\text{Eu}_3\text{Cd}_8\text{Ge}_4$. Inorganic Chemistry, 2018, 57, 833-842.	1.9	9
43	Niobium-bearing arsenides and germanides from elemental mixtures not involving niobium: a new twist to an old problem in solid-state synthesis. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 623-627.	0.2	13
44	Crystal structure of the layered arsenide $\text{Rb}_3\text{Cu}_3\text{As}_2$. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 1715-1718.	0.2	3
45	On the effect of Ga and In substitutions in the $\text{Ca}_{11}\text{Bi}_{10}$ and $\text{Yb}_{11}\text{Bi}_{10}$ bismuthides crystallizing in the tetragonal $\text{Ho}_{11}\text{Ge}_{10}$ structure type. Acta Crystallographica Section C, Structural Chemistry, 2018, 74, 269-273.	0.2	15
46	Synthesis and structural characterization of the Zintl phases $\text{Na}_3\text{Ca}_3\text{TrPn}_4$, $\text{Na}_3\text{Sr}_3\text{TrPn}_4$, and $\text{Na}_3\text{Eu}_3\text{TrPn}_4$ ($\text{Tr} = \text{Al, Ga, In}$; $\text{Pn} = \text{P, As, Sb}$). Journal of Solid State Chemistry, 2017, 249, 160-168.	1.4	8
47	The Ternary Alkaline-Earth Metal Manganese Bismuthides Sr_2MnBi_2 and Ba_2MnBi_2 ($x = 0.15$). Inorganic Chemistry, 2017, 56, 12369-12378.	1.9	22
48	Crystal chemistry and magnetic properties of the solid solutions $\text{Ca}_{14-x}\text{RE}_x\text{MnBi}_{11}$ ($\text{RE} = \text{La, Nd, Sm, and Gd}$; $x = 0.6-0.8$). Dalton Transactions, 2017, 46, 16041-16049.	1.0	23
49	Cu and Zn Substituted Silicon Clathrates with the Cubic Type III Structure: Synthesis and Characterization of $\text{Cs}_8\text{Na}_{16}\text{Cu}_{3.8}\text{Si}_{132.2}$ and $\text{Cs}_8\text{Na}_{16}\text{Zn}_{6.9}\text{Si}_{129.1}$. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2017, 643, 1874-1880.	0.6	2
50	Synthesis and Structural Characterization of $\text{Ca}_{14}\text{Nb}_x\text{In}_{1-x}\text{As}_{11}$ ($x = 0.85$). Solid State Phenomena, 2016, 257, 147-151.	0.3	3
51	Synthesis and Structural Characterization of the New Clathrates $\text{K}_8\text{Cd}_4\text{Ge}_{42}$, $\text{Rb}_8\text{Cd}_4\text{Ge}_{42}$, and $\text{Cs}_8\text{Cd}_4\text{Ge}_{42}$. Materials, 2016, 9, 236.	1.3	5
52	On the Extended Series of Quaternary Zintl Phases $\text{Ca}_{13}\text{REMnSb}_{11}$ ($\text{RE} = \text{La, Nd, Sm, Gd, Dy}$). European Journal of Inorganic Chemistry, 2016, 2016, 2912-2922.	1.0	24
53	Catalytic properties of $\text{RhSe}_2/\text{Ga}/\text{H-ZSM-5}$ system in the reaction of glycerol dehydration in the gas phase. Russian Journal of Applied Chemistry, 2016, 89, 233-237.	0.1	4
54	$\text{Cu}_3\text{Ru}_6\text{Sb}_8$ a new ternary antimonide with a new structure type. Inorganic Chemistry Frontiers, 2016, 3, 1616-1623.	3.0	1

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55	The new Zintl phases Eu ₂₁ Cd ₄ Sb ₁₈ and Eu ₂₁ Mn ₄ Sb ₁₈ . Journal of Solid State Chemistry, 2016, 238, 303-310.	1.4	11
56	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 . Journal of Solid State Chemistry, 2016, 236, 116-122.	1.4	10
57	Synthesis, Crystal and Electronic Structures of the Pnictides AE ₃ TrPn ₃ (AE = Sr, Ba; Tr = Al, Ga; Pn = P, As) Tj ETQq1 1 0.784314 rgBT /Overlock 10 T	1.0	21
58	Non-stoichiometric compositions arising from synergistic electronic and size effects. Synthesis, crystal chemistry and electronic properties of A _{1+x} Cd _{1+x} Pn ₁₁ compounds (0 ≤ x ≤ 0.3; A = Sr, Eu; Pn = As, Sb). Journal of Materials Chemistry C, 2015, 3, 10388-10400.	2.7	18
59	Structure of the Os ₂ S ₂ Br ₄ (4-CNPY) ₄ complex. Journal of Structural Chemistry, 2015, 56, 1198-1200.	0.3	0
60	Structural Variability versus Structural Flexibility. A Case Study of Eu ₉ Cd _{4+x} Sb ₉ and Ca ₉ Mn _{4+x} Sb ₉ (x = 1, 2). Inorganic Chemistry, 2015, 54, 947-955.	1.9	24
61	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 . Inorganic Chemistry, 2015, 54, 1821-1828.	1.9	10
62	Synthesis, crystal structures, and physical properties of the new Zintl phases A ₂₁ Zn ₄ Pn ₁₈ (A=Ca, Eu); Tj ETQq0 0 0 rgBT /Overlock 10 T 204-211.	1.4	22
63	Ba and Sr Binary Phosphides: Synthesis, Crystal Structures, and Bonding Analysis. Inorganic Chemistry, 2015, 54, 8608-8616.	1.9	31
64	New Type-I and Type-II Clathrates in the Systems CsNaGaSi, RbNaGaSi, and RbNaZnSi. Inorganics, 2014, 2, 79-95.	1.2	13
65	New Lithium-Containing Pnictides with Infinite Chains of Supertetrahedral Clusters: Synthesis, Crystal and Electronic Structure of Ba ₄ Li ₂ Cd ₃ Pn ₆ (Pn = P, As and Sb). European Journal of Inorganic Chemistry, 2014, 2014, 5113-5124.	1.0	17
66	Tin Clathrates with the Type II Structure. Journal of the American Chemical Society, 2013, 135, 1696-1699.	6.6	39
67	New ternary phosphides and arsenides. Syntheses, crystal structures, physical properties of Eu ₂ Zn ₂ P ₂ , Eu ₂ Zn ₂ P ₃ and Eu ₂ Cd ₂ As ₃ . Journal of Solid State Chemistry, 2013, 205, 116-121.	1.4	16
68	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 . Inorganic Chemistry, 2013, 52, 499-505.	1.9	10
69	Ternary K ₂ Zn ₅ As ₄ -type pnictides Rb ₂ Cd ₅ As ₄ and Rb ₂ Zn ₅ Sb ₄ , and the solid solution Rb ₂ Cd ₅ (As,Sb) ₄ . Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 455-459.	0.4	15
70	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. Chemistry of Materials, 2013, 25, 3737-3744.	3.2	7
71	K and Ba distribution in the structures of the clathrate compounds K _x Ba _{16-x} (Ga,Sn) ₁₃₆ (x = 0.8, 4.4, and 12.9) and K _x Ba _{8-x} (Ga,Sn) ₄₆ (x = 0.3). Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 319-323.	0.4	13
72	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). Acta Crystallographica Section C: Crystal Structure Communications, 2013, 69, 1457-1461.	0.4	5

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73	Synthesis, Structural Characterization, and Physical Properties of the Type-I Clathrates $A_8Zn_{18}As_{28}$ (A = Tl, ET, Qq) 1.0784314 $rgBT/Overlock$	3.2	38
74	Eleven new compounds in the RE $\hat{=}$ Cd $\hat{=}$ Ge systems (RE=Pr, Nd, Sm, Gd $\hat{=}$ Yb; Y): Crystal chemistry of the RE 2 CdGe 2 series. Journal of Solid State Chemistry, 2012, 192, 16-22.	1.4	17
75	Synthesis and Crystal Structures of the Quaternary Zintl Phases RbNa 8 Ga 3 Pn 6 (Pn = P, As) and Na 10 NbGaAs 6 . Crystals, 2012, 2, 213-223.	1.0	9
76	Synthesis and Structural Characterization of $A₉Tt₄$ ($A₉$) Tl ETQq0 0 0 $rgBT/Overlock$	0.6	4
77	NaZn 13 Structure Type. Improved Structure Refinement of SrCu 2 Ge 2 . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2012, 638, 1191-1198. Synthesis, Crystal Chemistry, and Magnetic Properties of $RE₇Li₈Ge₁₀$ and $RE₁₁Li₁₂Ge₁₆$ ($RE₇ = La<math>\hat{=}$ Nd, Sm): New Members of the $[RE₂Ge]_n$ ($n=7, 11, 12, 16$) Series. Inorganic Chemistry, 2012, 51, 6621-6629.	1.9	28
78	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). Journal of Solid State Chemistry, 2012, 188, 59-65.	1.4	40
79	Osmium thioselenochloride Os 2 S 6 Se 2 Cl 8 : Synthesis, cluster isolation, and structure. Russian Journal of Coordination Chemistry/Koordinatsionnaya Khimiya, 2012, 38, 167-172.	0.3	4
80	Eight-Coordinated Arsenic in the Zintl Phases RbCd 4 As 3 and RbZn 4 As 3 : Synthesis and Structural Characterization. Inorganic Chemistry, 2011, 50, 8375-8383.	1.9	41
81	Synthesis, Crystal and Electronic Structures, and Properties of the New Pnictide Semiconductors $A₂CdPn₂$ ($A₂ = Ca, Sr, Ba, Eu; Pn₂ = P, As). Inorganic Chemistry, 2011, 50, 8020-8027.$	1.9	48
82	New Compounds with [As 7] $3\hat{=}$ Clusters: Synthesis and Crystal Structures of the Zintl Phases Cs 2 NaAs 7 , Cs 4 ZnAs 14 and Cs 4 CdAs 14 . Crystals, 2011, 1, 87-98.	1.0	16
83	Ba 5 Cd 2 Sb 4 O $2\hat{=}$ A New Antimonide Oxide with a Complex Structure. Crystals, 2011, 1, 206-214.	1.0	5
84	Indium Doping in BaSn $3\hat{=}$ x In x (0 $\hat{=}$ x $\hat{=}$ 0.2) with Ni 3 Sn Structure. Crystals, 2011, 1, 104-111.	1.0	5
85	Ternary Compounds in the Sn-Rich Section of the Ba $\hat{=}$ Ga $\hat{=}$ Sn System: Ba 8 Ga $16\hat{=}$ xSn $30+x$ (1.1 $\hat{=}$ x $\hat{=}$ 2.8) Clathrates of Type-I and Type-VIII, and BaGa $2\hat{=}$ xSn $4+x$ (x $\hat{=}$ 0.2) with a Clathrate-like Structure. Crystals, 2011, 1, 145-162.	1.0	9
86	Synthesis, Crystal Structures and Properties of the Zintl Phases Sr 2 ZnP 2 , Sr 2 ZnAs 2 , $A₂ZnSb₂$ and $A₂ZnBi₂$ ($A₂ = Sr and Eu). Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2011, 637, 2018-2025.$	0.6	55
87	Gallium Pnictides of the Alkaline Earth Metals, Synthesized by Means of the Flux Method: Crystal Structures and Properties of CaGa 2 Pn 2 , SrGa 2 As 2 , Ba 2 Ga 5 As 5 , and Ba 4 Ga 5 Pn 8 ($Pn₂ = P or As). European Journal of Inorganic Chemistry, 2011, 2011, 4025-4036.$	1.0	20
88	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 $2\hat{=}$ xAcCdSb 2 , Ba $2\hat{=}$ xAcCdSb 2 and Eu $2\hat{=}$ xYbCdSb 2 . Journal of Solid State Chemistry, 2011, 184, 432-440.	1.4	39
89	Pentaeuropium dicadmium pentaantimonide oxide, Eu 5 Cd 2 Sb 5 O. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, i11-i11.	0.2	3
90	cis-trans Germanium chains in the intermetallic compounds Al $1\hat{=}$ xIn x Ge 2 and A 2 (Li $\hat{=}$ xIn x) 2 Ge 3 (A=Sr,) Tl ETQq0 0 0 $rgBT/Overlock$	1.4	22

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91	New quaternary Zintl phases " Synthesis, crystal and electronic structures of $\text{KA}_2\text{Cd}_2\text{Sb}_3$ (A=Ca, Sr, Tl) <i>ETQq1</i> 10.784314rgBT /Overlock 1	1.0	29
92	Undecaeuropium hexazinc dodecaarsenide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, i24-i24.	0.2	17
93	Dibarium triscadmium bismuthide(-I,-III) oxide, $\text{Ba}_2\text{Cd}_3\text{Bi}_3\text{O}$. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2010, 66, i81-i81.	0.2	4
94	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 =) <i>ETQq1</i> 10.784314rgBT /Overlock 1	0.0	10
95	Isolated $\langle \text{ZnPn} \rangle_2$ Chains in the Zintl Phases Ba_2ZnPn_2 (Pn = As, Sb, Bi) "Synthesis, Structure, and Bonding. <i>Inorganic Chemistry</i> , 2010, 49, 5173-5179.	1.9	62
96	BaGa_2Pn_2 (<i>Pn</i> = P, As): New Semiconducting Phosphides and Arsenides with Layered Structures. <i>Inorganic Chemistry</i> , 2010, 49, 7935-7940.	1.9	37
97	New Manganese-Bearing Antimonides and Bismuthides with Complex Structures. Synthesis, Structural Characterization, and Electronic Properties of $\text{Yb}_9\text{Mn}_4\text{Pn}_9$ (<i>Pn</i> = Sb or Bi). <i>Chemistry of Materials</i> , 2010, 22, 840-850.	3.2	43
98	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<x<0.7). <i>Dalton Transactions</i> , 2010, 39, 11335.	1.6	17
99	Synthesis, crystallographic and theoretical studies of the new Zintl phases $\text{Ba}_2\text{Cd}_2\text{Pn}_3$ (Pn = As, Sb), and the solid solutions $\text{Ba}_1\text{Sr}_x\text{Cd}_2\text{Sb}_3$ and $\text{Ba}_2\text{Cd}_2(\text{Sb}_1\text{As}_x)_3$. <i>Dalton Transactions</i> , 2010, 39, 1063-1070.	1.6	67
100	Are $\text{Ba}_{11}\text{Cd}_6\text{Sb}_{12}$ and $\text{Sr}_{11}\text{Cd}_6\text{Sb}_{12}$ Zintl phases or not? A density-functional theory study. <i>Journal of Computational Chemistry</i> , 2008, 29, 2125-2133.	1.5	37
101	Synthesis, structure and physical properties of the new Zintl phases $\text{Eu}_{11}\text{Zn}_6\text{Sb}_{12}$ and $\text{Eu}_{11}\text{Cd}_6\text{Sb}_{12}$. <i>Journal of Solid State Chemistry</i> , 2008, 181, 2690-2696.	1.4	51
102	Synthesis, Structure, and Bonding of the Zintl Phase $\text{Ba}_3\text{Cd}_2\text{Sb}_4$. <i>Inorganic Chemistry</i> , 2008, 47, 11237-11244.	1.9	50
103	Zintl Phase Variations Through Cation Selection. Synthesis and Structure of $\text{A}_{21}\text{Cd}_4\text{Pn}_{18}$ (A = Eu, Sr, Ba; Pn = Sb, Bi). <i>Inorganic Chemistry</i> , 2008, 47, 1919-1921.	1.9	59
104	On the existence of Ca_2Bi -crystal and electronic structure of $\text{Ca}_4\text{Bi}_2\text{O}$. <i>Journal of Alloys and Compounds</i> , 2007, 427, 67-72.	2.8	21
105	Interplay between Size and Electronic Effects in Determining the Homogeneity Range of the $\text{A}_9\text{Zn}_4\text{Pn}_9$ and $\text{A}_9\text{Cd}_4\text{Pn}_9$ Phases (0 <x< 0.5), A = Ca, Sr, Yb, Eu; Pn = Sb, Bi. <i>Journal of the American Chemical Society</i> , 2007, 129, 10011-10018.	6.6	83
106	Cation-Anion Interactions as Structure Directing Factors: Structure and Bonding of Ca_2CdSb_2 and Yb_2CdSb_2 . <i>Journal of the American Chemical Society</i> , 2007, 129, 4049-4057.	6.6	98
107	Diverse Polyanions Based on MnBi_4 and MnSb_4 Tetrahedra: Polymorphism, Structure, and Bonding in $\text{Ca}_{21}\text{Mn}_4\text{Bi}_{18}$ and $\text{Ca}_{21}\text{Mn}_4\text{Sb}_{18}$. <i>Inorganic Chemistry</i> , 2007, 46, 874-883.	1.9	39
108	$\text{Sr}_{11}\text{InSb}_9$ grown from molten In. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2007, 63, i178-i178.	0.2	10

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109	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, 619-624.	1.7	22
110	$\text{Ba}_{11}\text{Cd}_8\text{Bi}_{14}$: Bismuth Zigzag Chains in a Ternary Alkaline-Earth Transition-Metal Zintl Phase. <i>Inorganic Chemistry</i> , 2006, 45, 7126-7132.	1.9	31
111	Probing the Limits of the Zintl Concept: Structure and Bonding in Rare-Earth and Alkaline-Earth Zinc-Antimonides $\text{Yb}_9\text{Zn}_{4+x}\text{Sb}_9$ and $\text{Ca}_9\text{Zn}_{4.5}\text{Sb}_9$. <i>Inorganic Chemistry</i> , 2004, 43, 5044-5052.	1.9	81
112	Five Ternary Zintl Phases in the Systems Alkali-Metal-Indium-Bismuth. <i>Journal of Solid State Chemistry</i> , 2002, 163, 436-448.	1.4	17
113	Clathrates of Group 14 with Alkali Metals: An Exploration. <i>Journal of Solid State Chemistry</i> , 2000, 153, 92-105.	1.4	215