

# Simeon Ponou

## List of Publications by Year in descending order

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38  
papers

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759233

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#	ARTICLE	IF	CITATIONS
1	Uncovering new transition metal Zintl phases by cation substitution: the crystal chemistry of $\text{Ca}_{3-x}\text{CuGe}_3$ and $\text{Ca}_{2+n}\text{Mn}_x\text{Ag}_{2-x}\text{Ge}_{2+n}$ ( $x = 3, 4$ ). <i>CrystEngComm</i> , 2021, 23, 2711-2722.	2.6	0
2	A New Material with a Composite Crystal Structure Causing Ultralow Thermal Conductivity and Outstanding Thermoelectric Properties: $\text{Ti}_2\text{Ag}_{12}\text{Te}_7$ . <i>Journal of the American Chemical Society</i> , 2018, 140, 8578-8585.	13.7	33
3	Conflict between the Electronic Factors and Structure-Directing Rules in the Intergrowth Structure of $\text{Ca}_4\text{Ag}_2\text{Ge}_4$ with $x = 1/2$ . <i>Crystal Growth and Design</i> , 2016, 16, 5946-5953.	3.0	3
4	Exo-bonded six-membered heterocycle in the crystal structures of $\text{RE}_7\text{Co}_2\text{Ge}_4$ (RE = La, Nd). <i>Dalton Transactions</i> , 2016, 45, 18522-18531.	3.3	4
5	Structure and Bonding of an Intergrowth Phase $\text{Ca}_7\text{Ag}_{2+x}\text{Ge}_7$ ( $x = 2/3$ ) Featuring a Zintl Polyanionic Chain. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 169-176.		6
6	Synergistic Geometrical and Electronic Features in the Intermetallic Phases $\text{Ca}_2\text{AgM}_2$ , $\text{Ca}_2\text{MgM}_2$ , and $\text{Ca}_2\text{GaM}_2$ ( $M = \text{Pd, Pt}$ ). <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2015, 641, 1069-1079.	1.2	7
7	Linear Metal Chains in $\text{Ca}_2\text{M}_2\text{X}$ (M = Pd, Pt; X = Al, Ge): Origin of the Pairwise Distortion and Its Role in the Structure Stability. <i>Chemistry of Materials</i> , 2015, 27, 304-315.	6.7	27
8	Synthesis, Crystal Structure, and Bonding Analysis of the Hypoelectronic Cubic Phase $\text{Ca}_5\text{Pd}_6\text{Ge}_6$ . <i>Inorganic Chemistry</i> , 2015, 54, 9098-9104.	4.0	6
9	Two-dimensionally stacked heterometallic layers hosting a discrete chair dodecameric ring of water clusters: synthesis and structural study. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2014, 70, 900-902.	1.1	4
10	Valence State Driven Site Preference in the Quaternary Compound $\text{Ca}_5\text{MgAgGe}_5$ : An Electron-Deficient Phase with Optimized Bonding. <i>Inorganic Chemistry</i> , 2014, 53, 4724-4732.	4.0	10
11	A new heteroleptic oxalate-based compound: poly[[2-(aminomethyl)pyridine]di- $\mu_4$ -oxalato-chromium(III)potassium(I)]. <i>Acta Crystallographica Section C, Structural Chemistry</i> , 2014, 70, 12-15.	0.5	2
12	A supramolecular copper(II) compound with double bridging water ligands: synthesis, crystal structure, spectroscopy, thermal analysis, and magnetism. <i>Transition Metal Chemistry</i> , 2013, 38, 21-29.	1.4	1
13	Bonding Schemes for Polar Intermetallics through Molecular Orbital Models: Ca-Supported Pt-Pt Bonds in $\text{Ca}_{10}\text{Pt}_7\text{Si}_3$ . <i>Crystals</i> , 2013, 3, 504-516.	2.2	11
14	$\text{Ca}_2\text{Pd}_3\text{Ge}$ , a new fully ordered ternary Laves phase structure. <i>Journal of Solid State Chemistry</i> , 2013, 197, 312-316.	2.9	25
15	$\text{Ca}_3\text{Ag}_{1-x}\text{Ge}_3$ ( $x = 1/3$ ): New Transition Metal Zintl Phase with Intergrowth Structure and Alloying with Aluminum Metal. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2013, 639, 35-40.	1.2	6
16	Extreme Differences in Oxidation States: Synthesis and Structural Analysis of the Germanide Oxometallates $\text{A}_{10}[\text{Ge}_9]_2[\text{WO}_4]$ As Well As $\text{A}_{10+x}[\text{Ge}_9]_2[\text{W}_1]_x\text{Nb}_x\text{O}_4$ with A = K and Rb Containing $[\text{Ge}_9]_2^{4-}$ Polyanions. <i>Inorganic Chemistry</i> , 2012, 51, 4058-4065.		
17	$\text{Ca}_{10}\text{Pt}_7\text{Tt}_3$ (Tt = Si, Ge): New Platinide Phases Featuring Electron-Rich $4\text{f}^6$ Bonded $[\text{Pt}_7\text{Tt}_3]_{20}$ Intermetalloid Clusters. <i>Inorganic Chemistry</i> , 2012, 51, 11980-11985.	4.0	12
18	catena-Poly[[[(oxamide dioxime- $\mu_2$ N,N $\mu_2$ )copper(II)]- $\mu_4$ -L-tartrato- $\mu_4$ O1,O2:O3,O4] tetrahydrate]: a chiral nanochannel framework hosting solvent water molecules. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2012, 68, m131-m134.	0.4	2

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19	Structural Investigation of a Fully Ordered closo-Ge <sub>92</sub> - Cluster in the Compound [K <sub>2</sub> (2,2,2-crypt)] <sub>2</sub> Ge <sub>92</sub> . European Journal of Inorganic Chemistry, 2011, 2011, 3999-4005.	2.0	17
20	Calcium platinum aluminium, CaPtAl. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, i55-i55.	0.2	4
21	On a TiNiSi-Type Superstructure: Synthesis, Crystal and Electronic Structures of CaAgGe and Its Mn-Substituted Derivative. European Journal of Inorganic Chemistry, 2010, 2010, 4139-4147.	2.0	8
22	Synthesis and Crystal Structure of Ca <sub>2</sub> Ag <sub>1.83</sub> Al <sub>0.67</sub> Ge <sub>1.50</sub> – A Solid Solution with the NbCoB <sub>6</sub> -type structure. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 2143-2146.	1.2	6
23	Î±-Cd <sub>13-x</sub> Sb <sub>10</sub> - The Devil is in the Details. Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2009, 635, 1747-1752.	1.2	2
24	Synthesis and Characterization of Na <sub>5</sub> M <sub>2+x</sub> Sn <sub>10</sub> (x ≈ 0.5, M = Zn, Hg) – A Doped Tetrahedral Framework Structure. Journal of the American Chemical Society, 2009, 131, 10246-10252.	13.7	14
25	Non-isovalent substitution in a Zintl phase with the TiNiSi type structure, CaMg <sub>1-x</sub> Ag <sub>x</sub> Ge [x = 0.13... (3)]. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, i90-i90.	0.2	3
26	Synthesis and Crystal Structure of Mercury-Substituted Type-I Clathrates A <sub>8</sub> Hg <sub>4</sub> Sn <sub>42</sub> (A = K, Rb, Cs). European Journal of Inorganic Chemistry, 2008, 2008, 538-542.	2.0	24
27	A <sub>4</sub> Ge <sub>9</sub> (A = K, Rb) as Precursors for Hg-Substituted Clathrate – Synthesis: Crystal Structure of A <sub>8</sub> Hg <sub>3</sub> Ge <sub>43</sub> . European Journal of Inorganic Chemistry, 2008, 2008, 4507-4510.	2.0	19
28	Structural Complexity in Intermetallic Alloys: Long-Periodic Order beyond 10 <sup>3</sup> nm in the System BaSn <sub>3</sub> /BaBi <sub>3</sub> . Angewandte Chemie - International Edition, 2008, 47, 3999-4004.	13.8	13
29	Cation Substitution Effects in the System Sr <sub>2-x</sub> Ba <sub>x</sub> Bi <sub>3</sub> (0 ≤ x ≤ 1.3): Structural Distortions Induced by Chemical Pressure. Inorganic Chemistry, 2008, 47, 3594-3602.	4.0	9
30	Crystal structure of calcium silver germanium, CaAg <sub>0.98</sub> Ge <sub>1.02</sub> . Zeitschrift Fur Kristallographie - New Crystal Structures, 2008, 223, 329-330.	0.3	2
31	Crystal Growth and Structure Refinement of K <sub>4</sub> Ge <sub>9</sub> . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 393-397.	1.2	46
32	Substitution Effects in Zintl Phases: Synthesis and Crystal Structure of the Novel Phases Ae <sub>3</sub> Sn <sub>4-x</sub> Bi <sub>1+x</sub> (x ≈ 1; Ae = Sr, Ba) Containing Shubnikov-Type Nets $S_{\infty}^{2-} [Sn_{4-x}Bi_x]$ . Zeitschrift Fur Anorganische Und Allgemeine Chemie, 2007, 633, 1568-1574.	1.2	6
33	KBi <sub>2-x</sub> Pbx (0 < x ≤ 1): A Zintl Phase Evolving from a Distortion of the Cubic Laves-Phase Structure.. ChemInform, 2006, 37, no.	0.0	0
34	KBi <sub>2-x</sub> Pbx (0 < x ≤ 1): A Zintl Phase Evolving from a Distortion of the Cubic Laves-Phase Structure. Inorganic Chemistry, 2005, 44, 7423-7430.	4.0	18
35	Nonclassical Bonding in the Novel Structure of Ba <sub>2</sub> Bi <sub>3</sub> and Unexpected Site Preference in the Coloring Variant Ba <sub>2</sub> BiSb <sub>2</sub> .. ChemInform, 2004, 35, no.	0.0	0
36	Synthesis, Characterization, and Electronic Structure of Ba <sub>5</sub> In <sub>4</sub> Bi <sub>5</sub> : An Acentric and One-Electron Deficient Phase. Chemistry - A European Journal, 2004, 10, 3615-3621.	3.3	29

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37	Nonclassical Bonding in the Novel Structure of Ba <sub>2</sub> Bi <sub>3</sub> and Unexpected Site Preference in the Coloring Variant Ba <sub>2</sub> BiSb <sub>2</sub> . Inorganic Chemistry, 2004, 43, 6124-6126.	4.0	24
38	Structure analysis and the existence of light-induced long-lived metastable states in Xn[Fe(CN) <sub>5</sub> NO] with inorganic and organic cations: Xn = Pb, (H <sub>3</sub> O+CH <sub>6</sub> N <sup>+</sup> ), (C <sub>2</sub> N <sub>2</sub> H <sub>7</sub> ) <sub>2</sub> and (C <sub>16</sub> H <sub>36</sub> N) <sub>2</sub> . Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, .	0.8	5