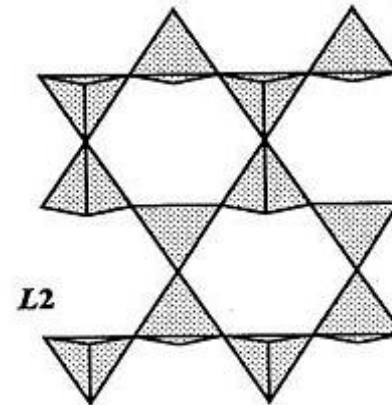
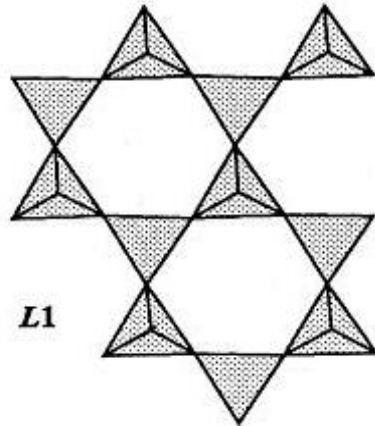


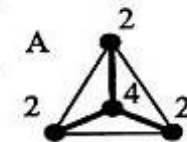
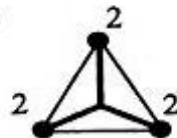
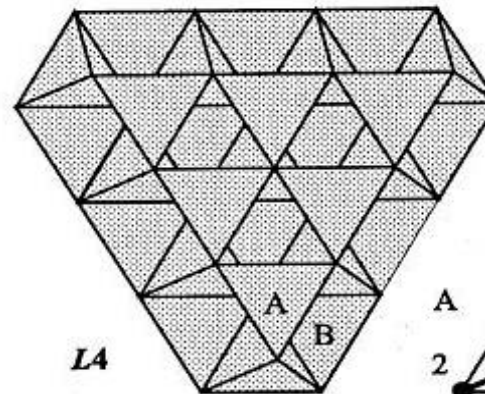
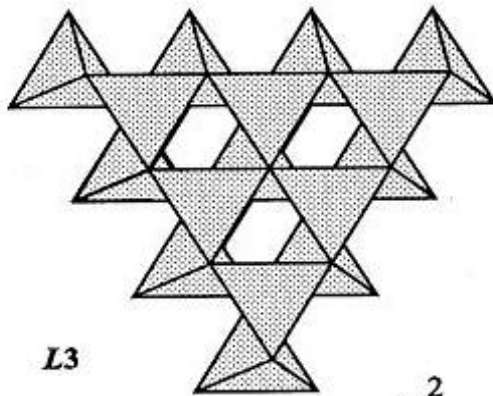
Типы слоистых комплексов

Слои по своему многообразию превосходят как островные комплексы, так и комплексы с бесконечной протяженностью в одном направлении

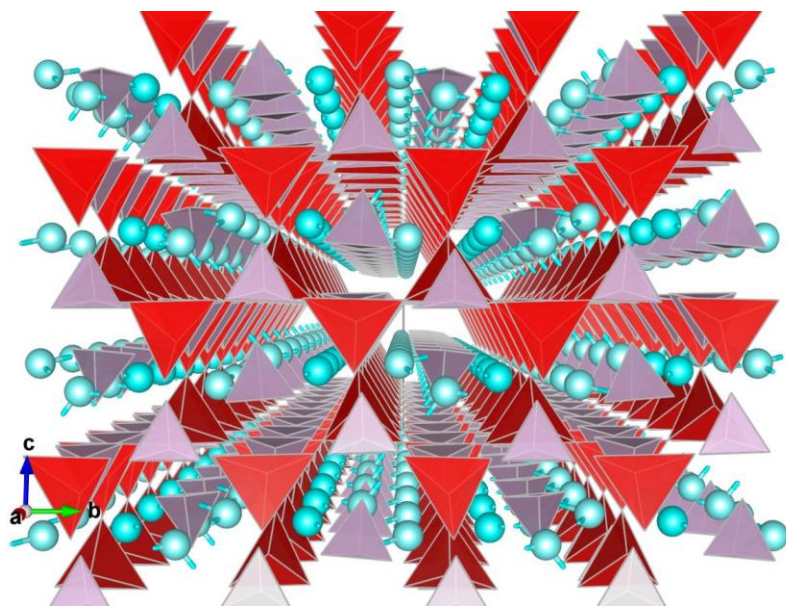
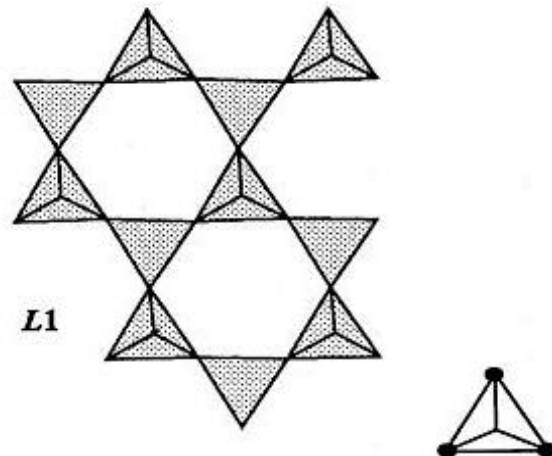
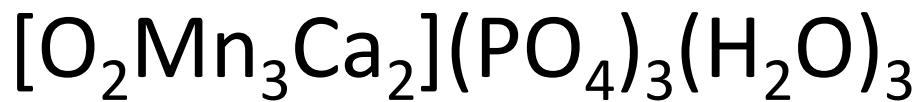
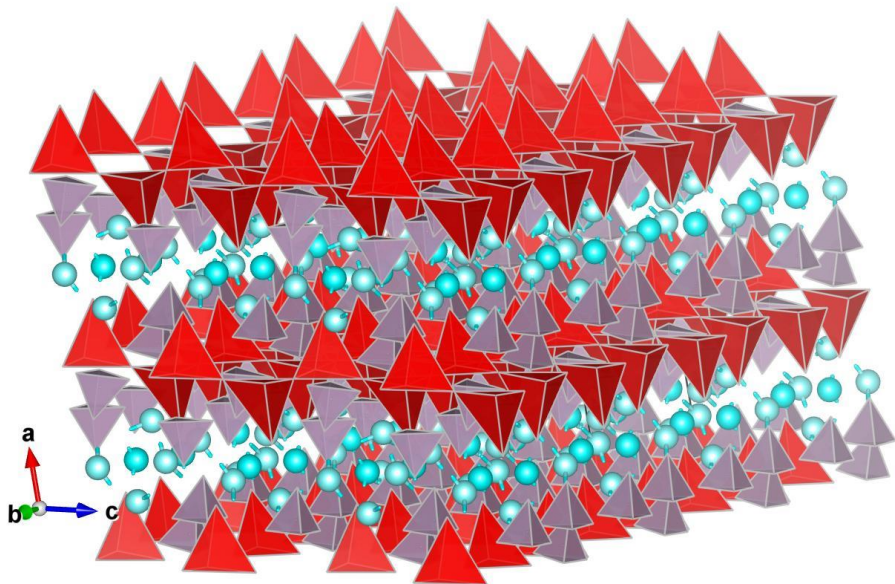
Аверьевит
Митридатит
Параробертсит



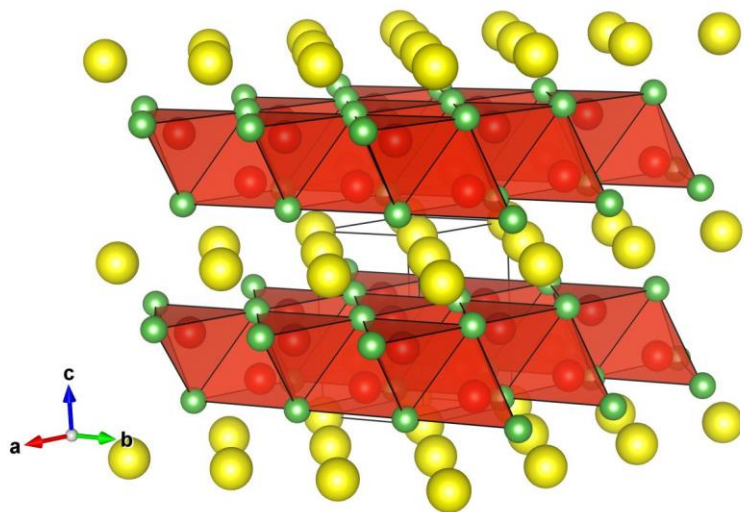
Ильинскит



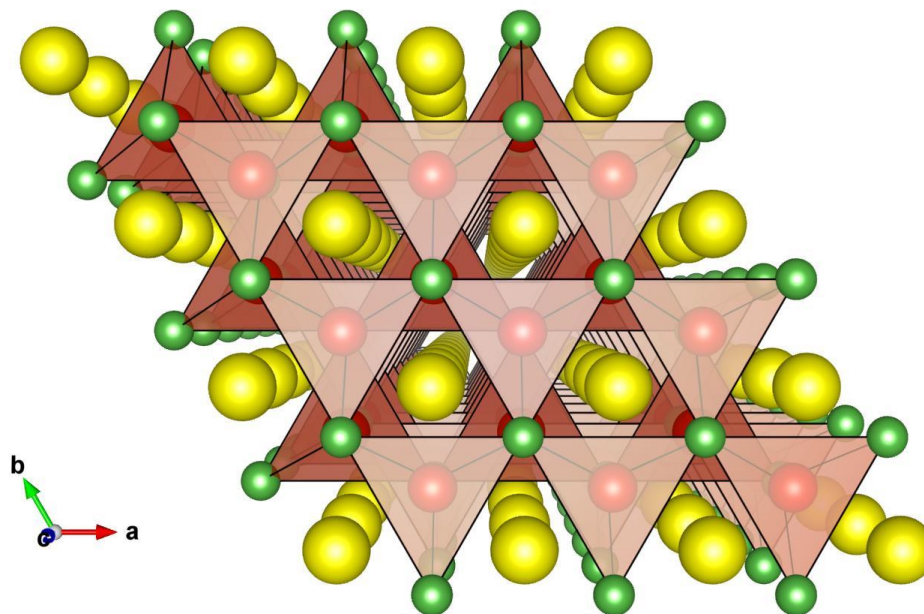
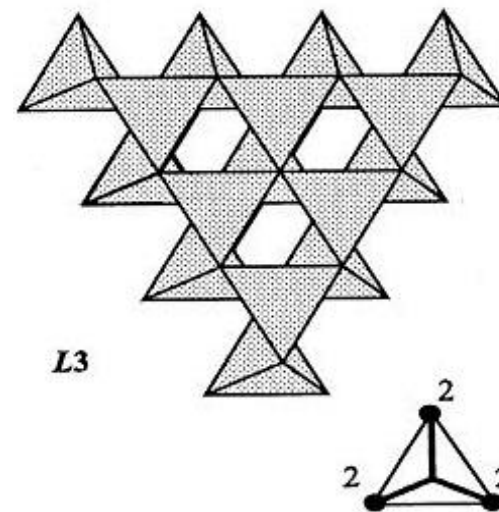
Структура минерала параробертсита



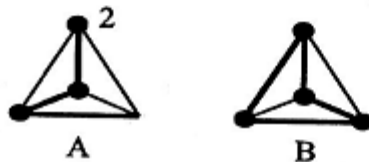
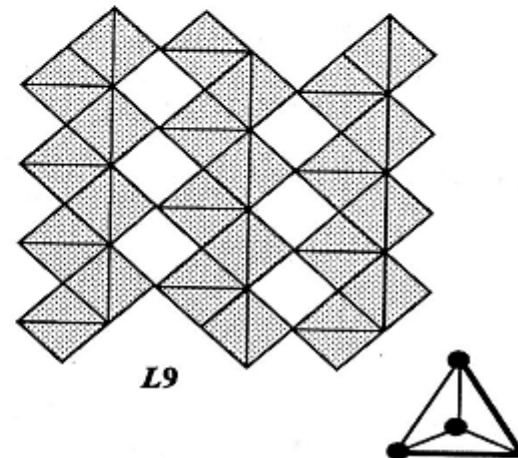
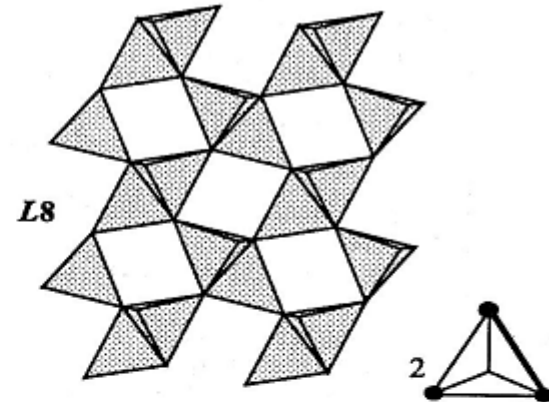
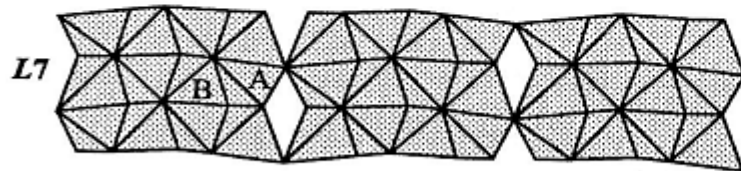
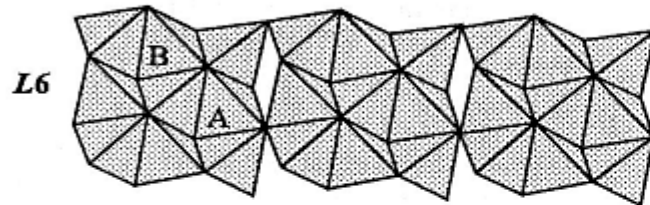
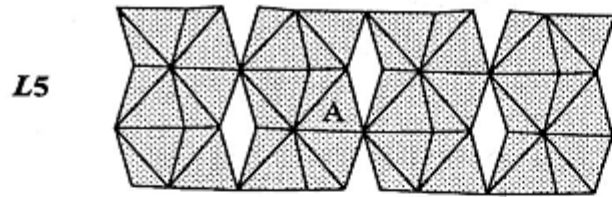
Структура $[\text{O}_2\text{La}_2]\text{S}_2$



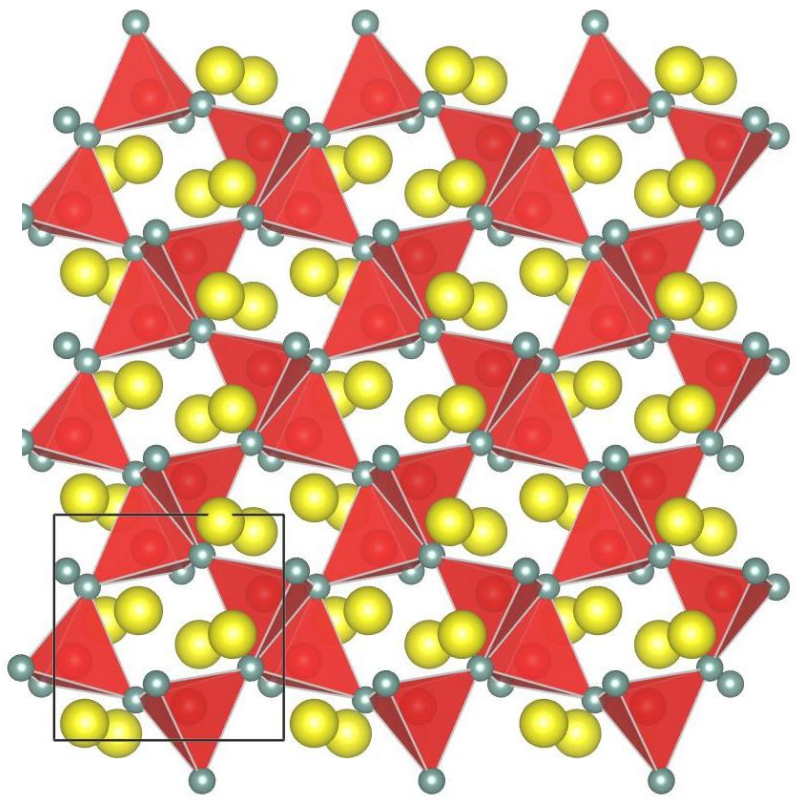
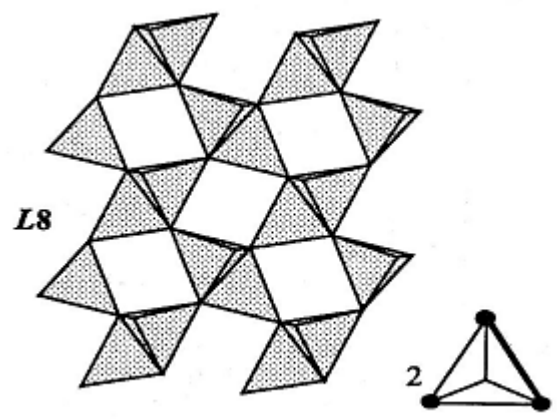
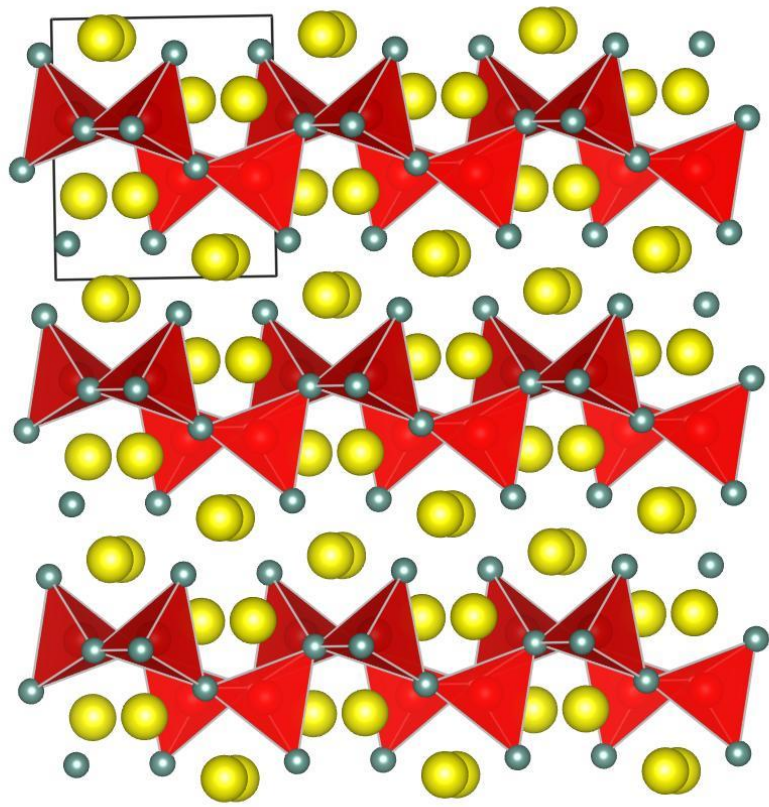
Слой весьма распространен среди неорганических соединений, особенно среди оксосульфидов редкоземельных элементов и актиноидов



Типы слоистых комплексов

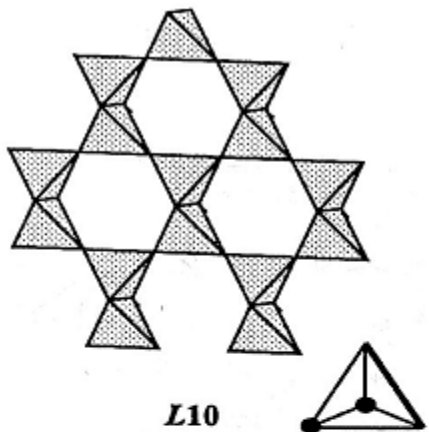


Структура $[Y_2O]S_2$

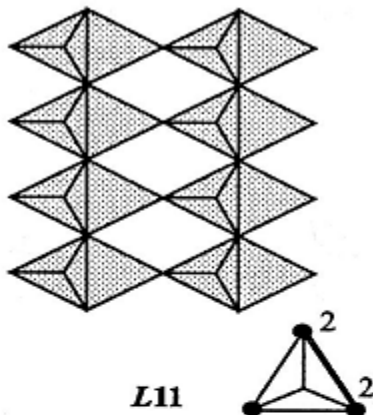


Типы слоистых комплексов

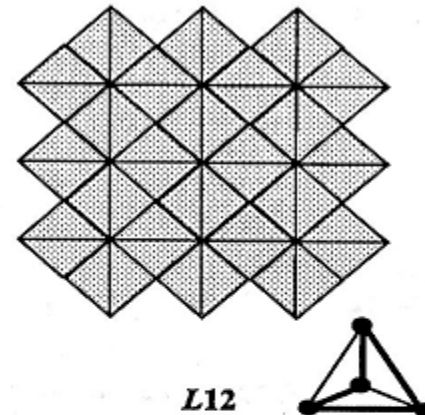
Долерафанит
Францисит



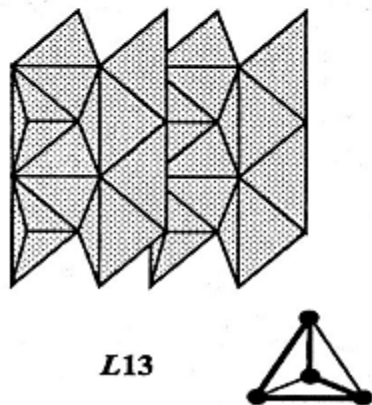
Мозандрит
Халсит



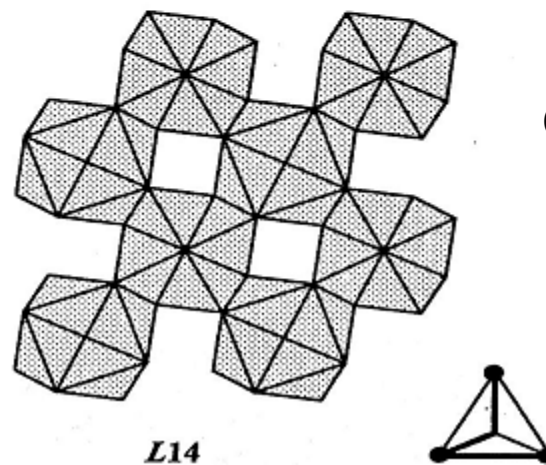
Литаргит
Русселит
Кехлинит и др.



Массикот

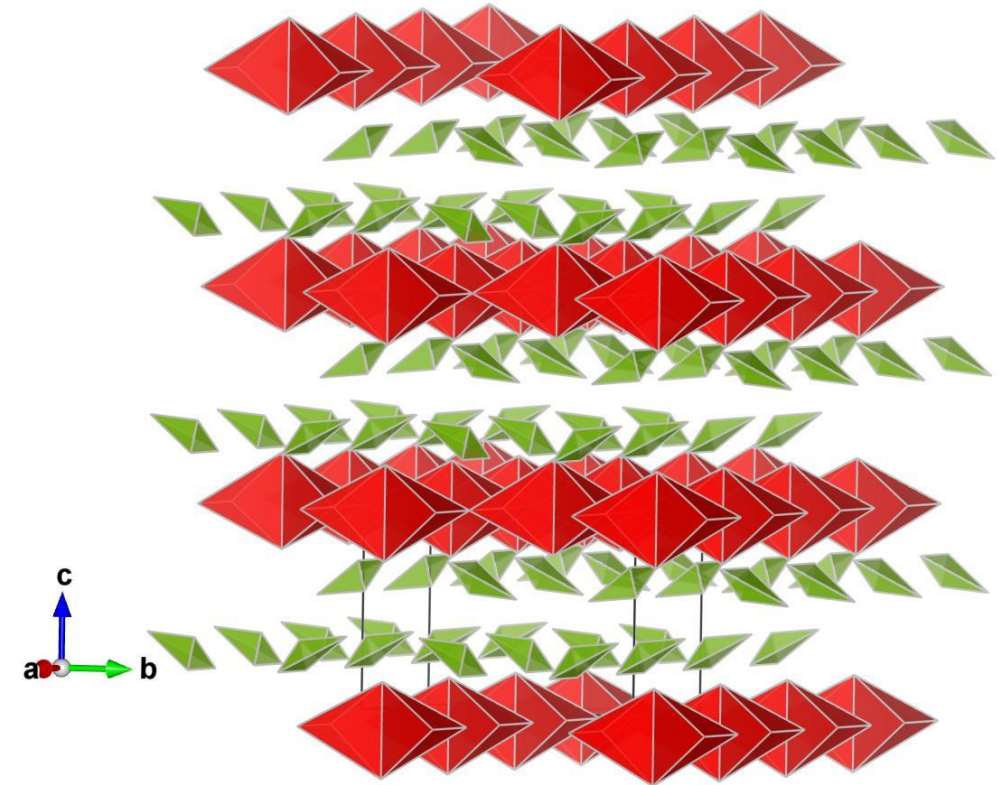
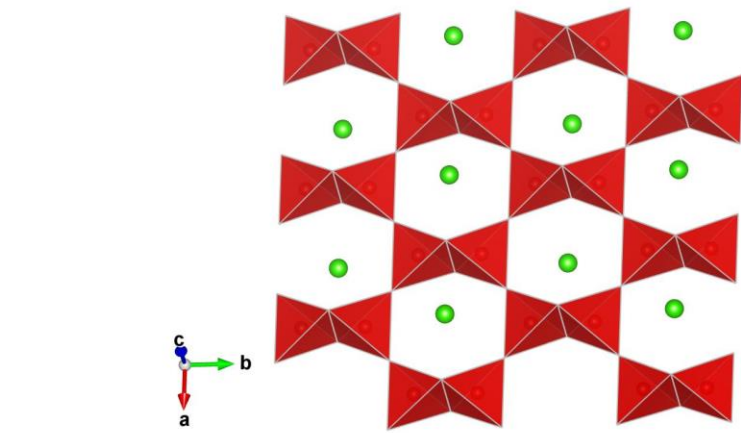
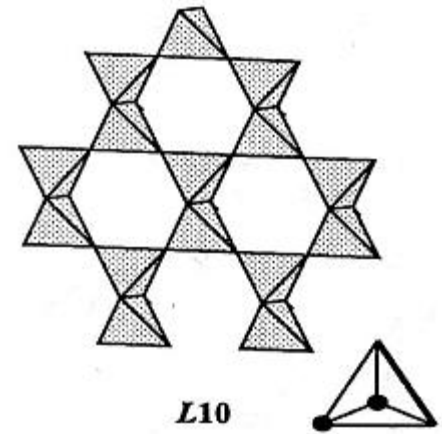
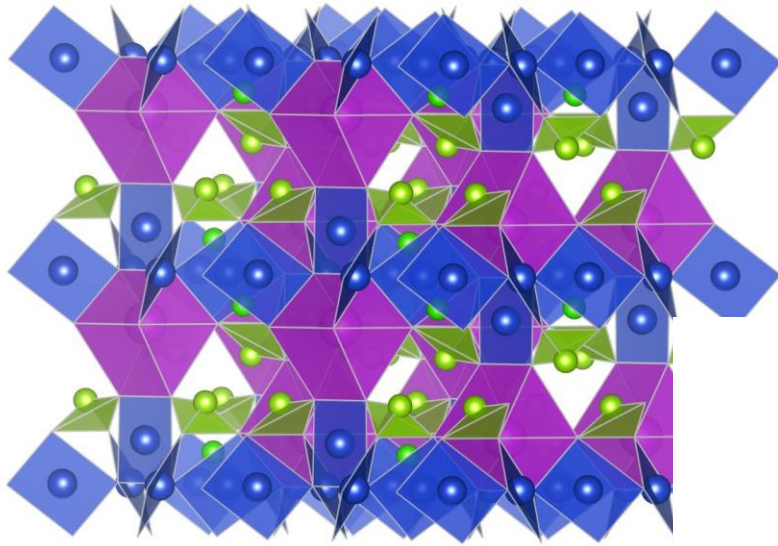


Синтетическое
соединение
 $[O_4AgPb_4]Cl$

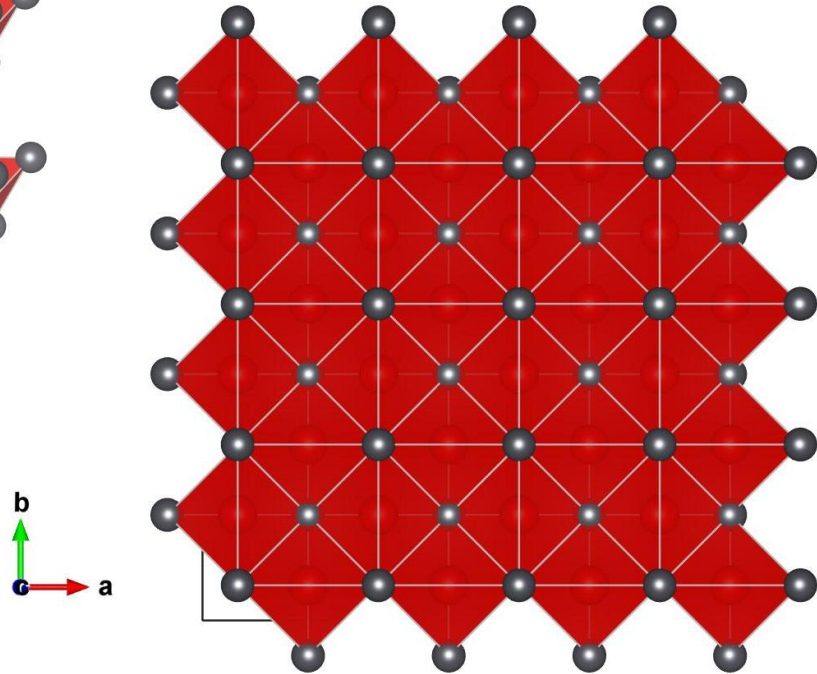
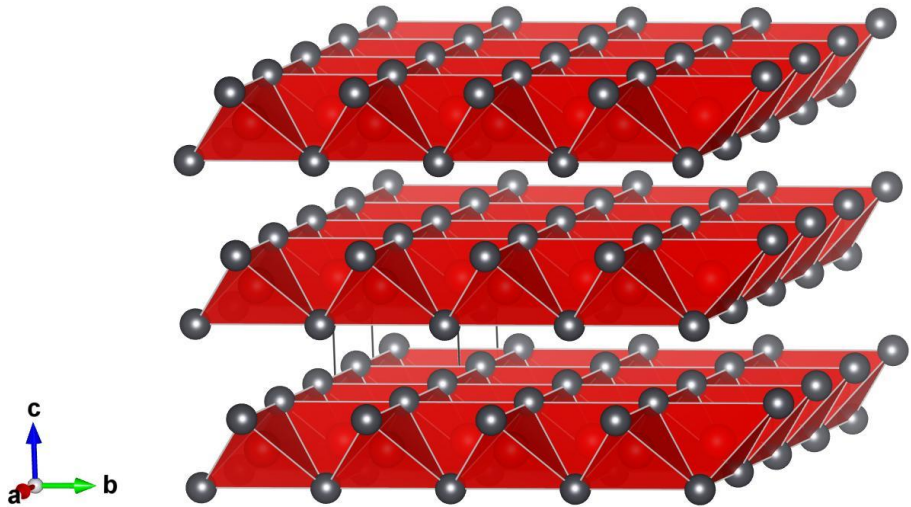
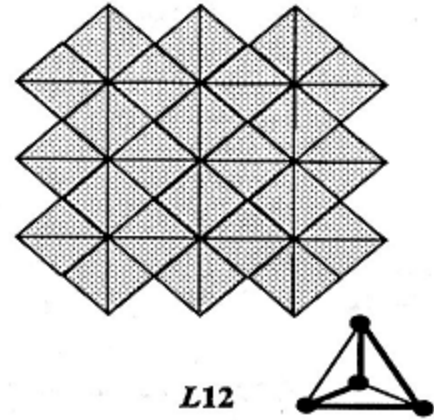


Структура францисита

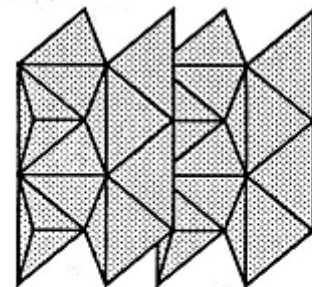
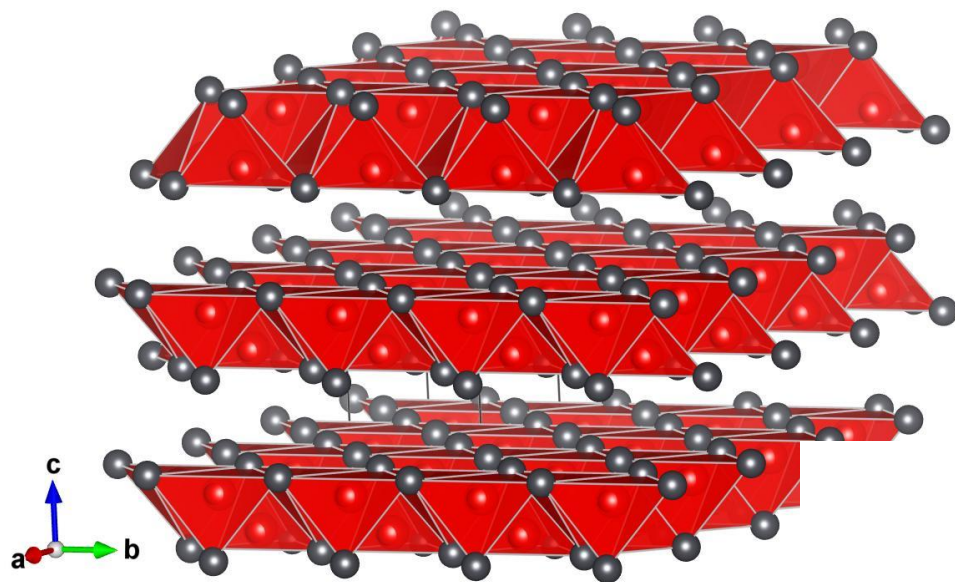
$[O_2Cu_3Bi](SeO_3)_2Cl$



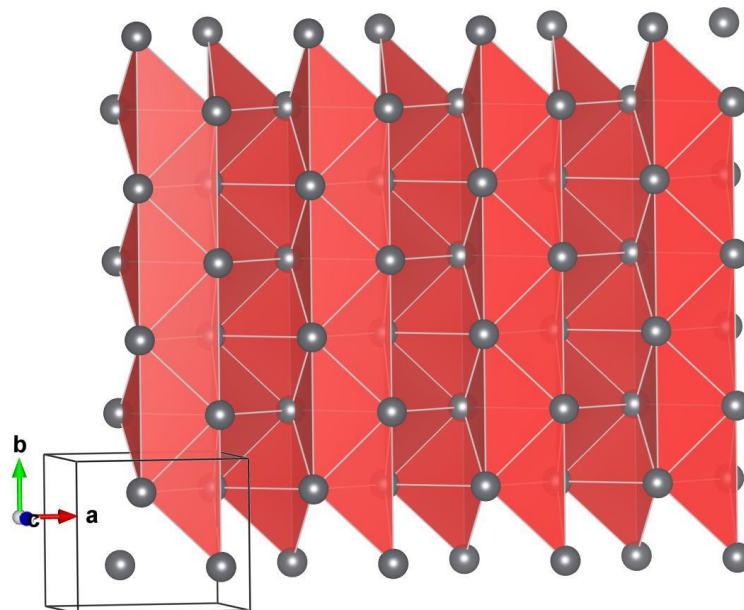
Структура литаргита (глетта) PbO



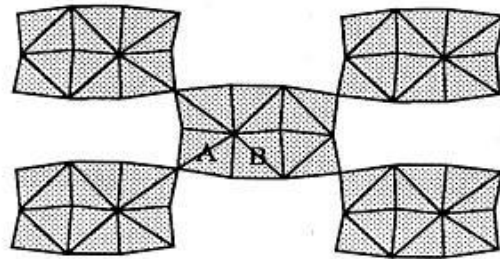
Структура масикота PbO



L13



Типы слоистых комплексов



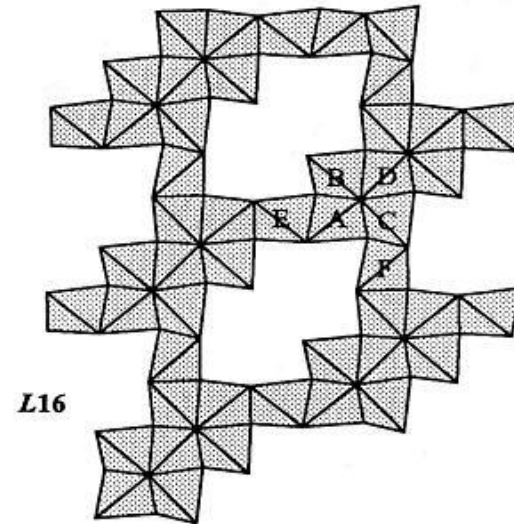
L15



A



B



L16



A, C



B

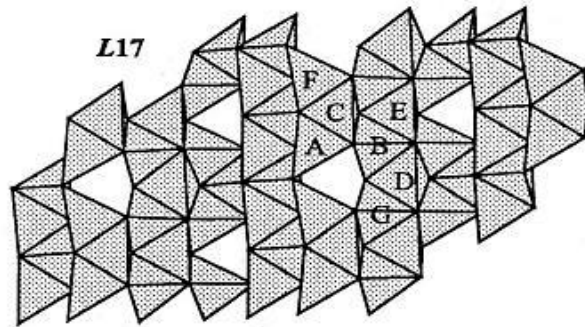


D



E, F

комбатит



L17



A, B, F, G

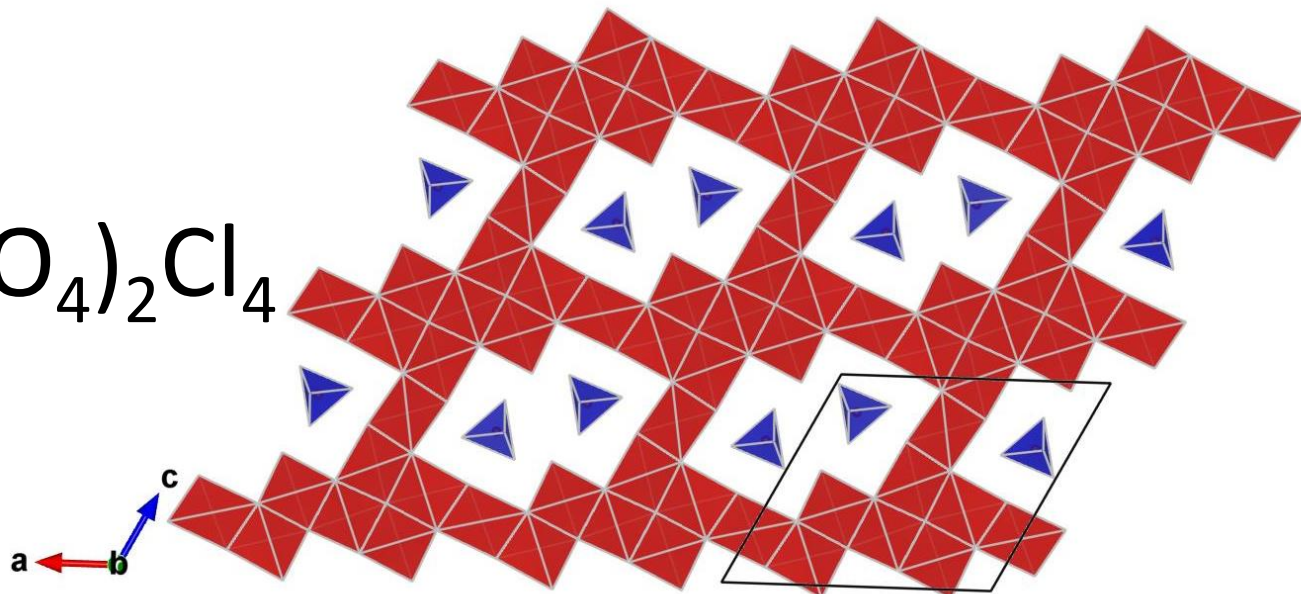
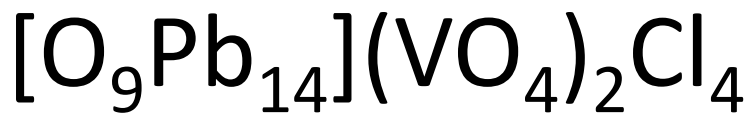
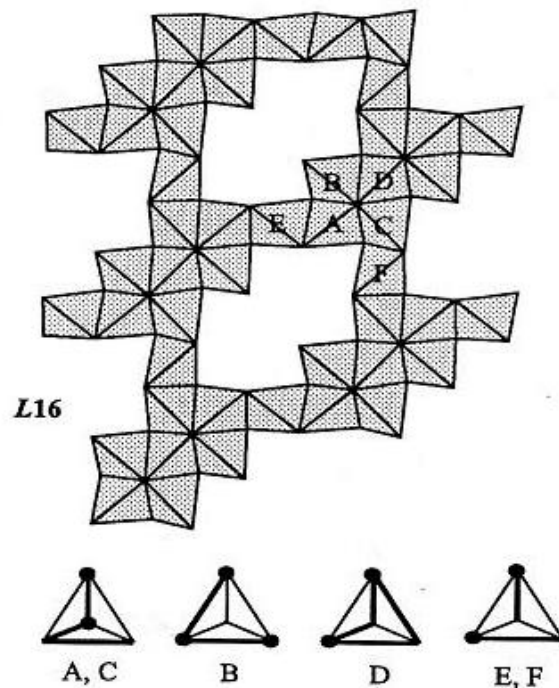
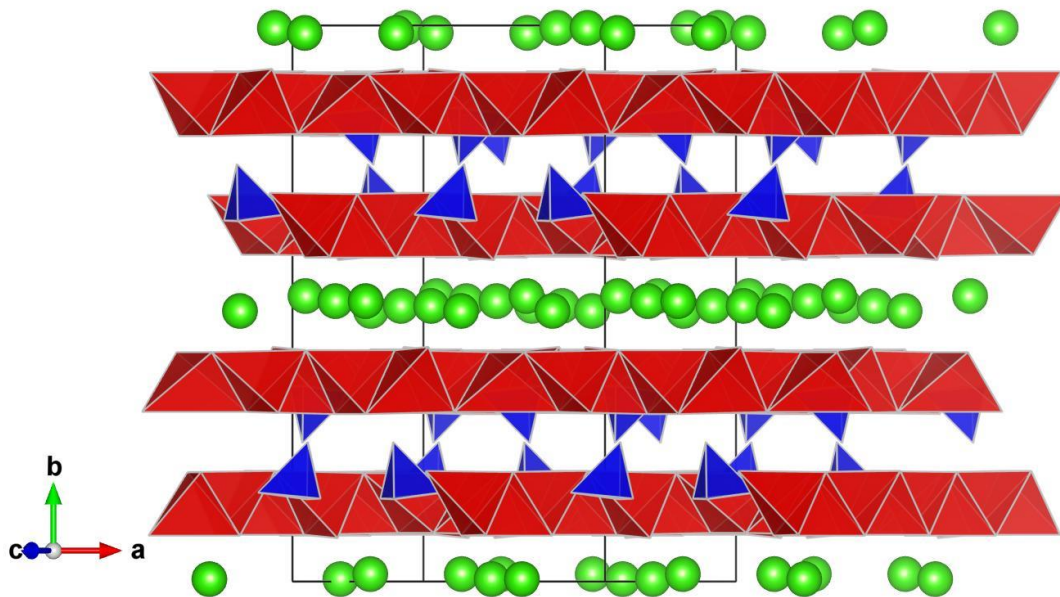


C

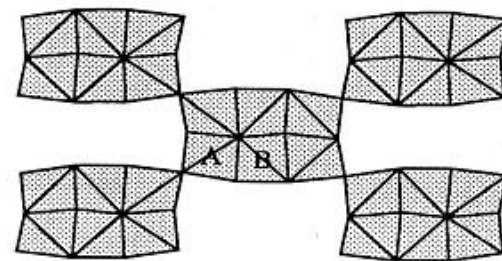
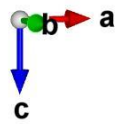
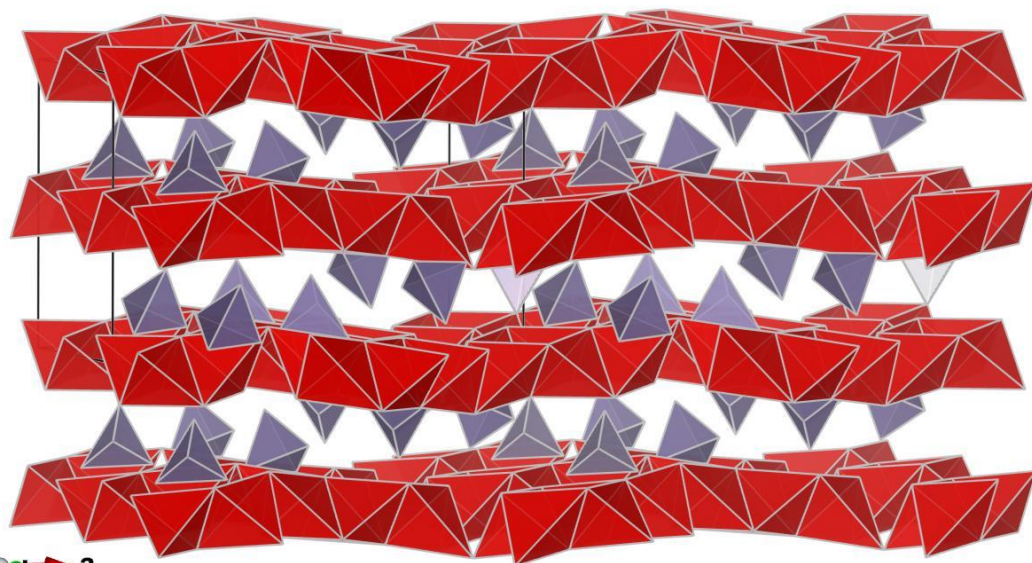


D, E

Структура комбатита



Структура $[O_3Pb_5](GeO_4)$



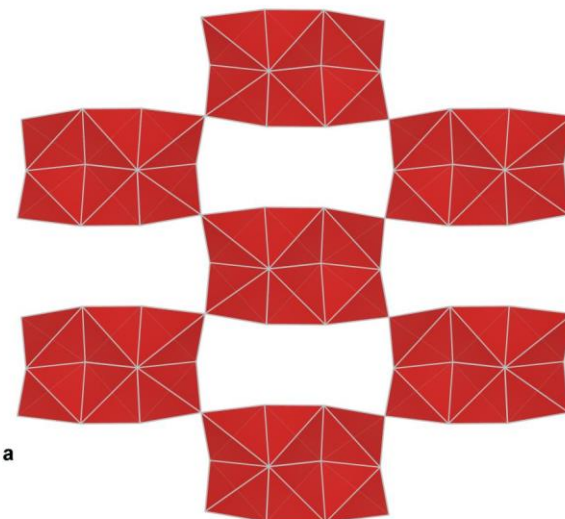
L15



A



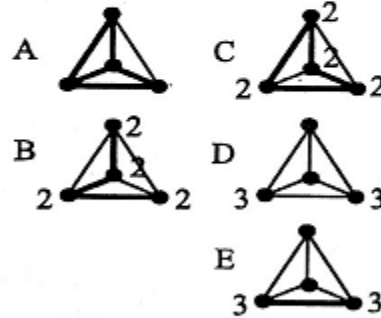
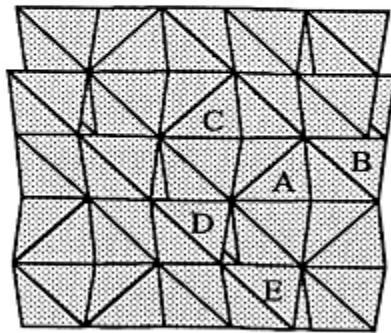
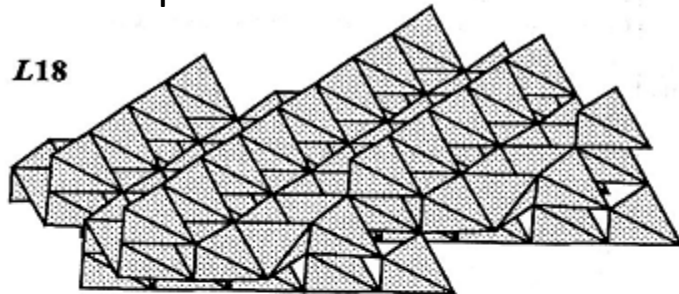
B



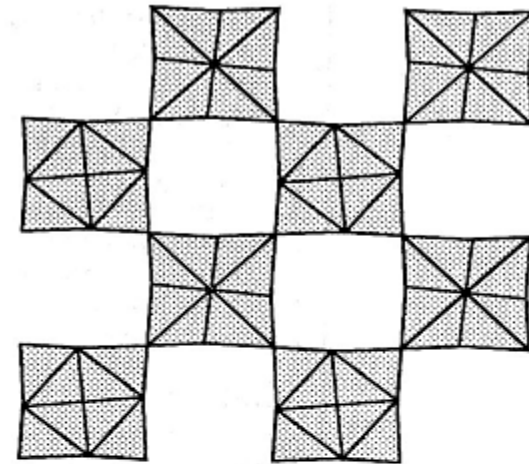
Типы слоистых комплексов

Ферсманит

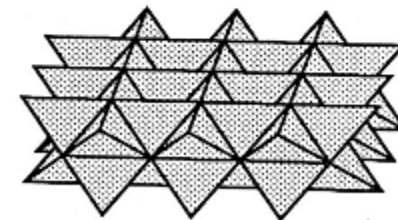
L18



Набокоит



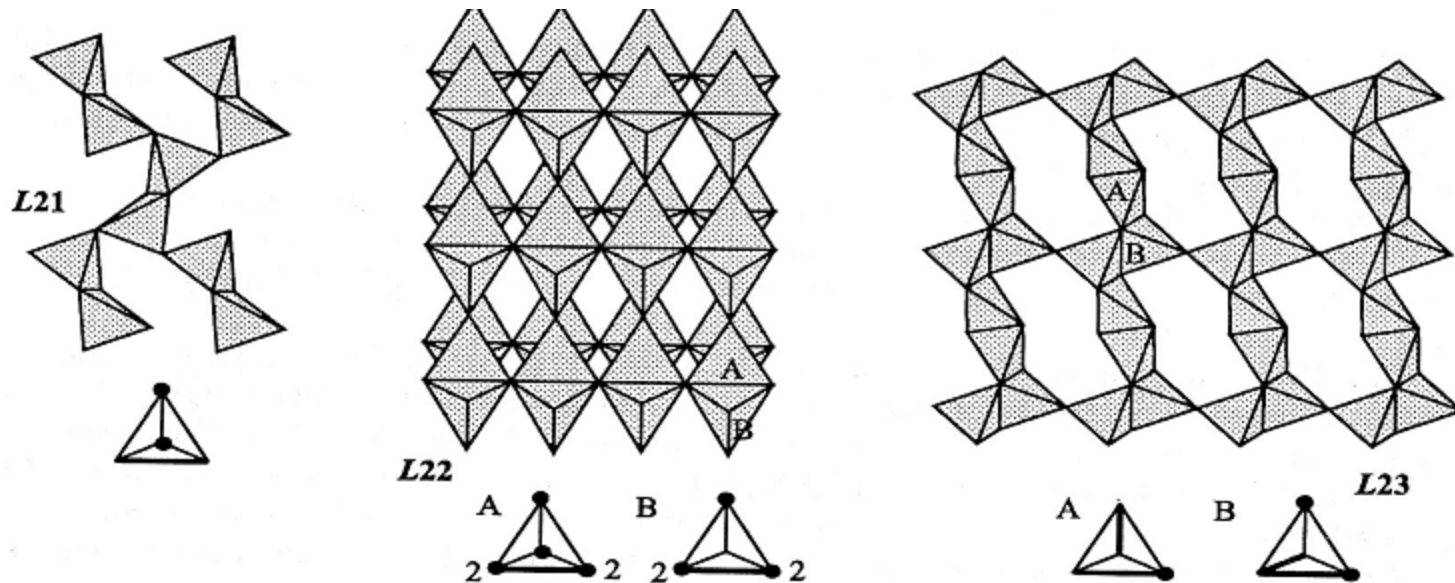
L19



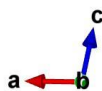
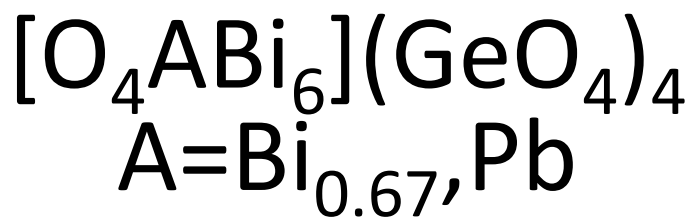
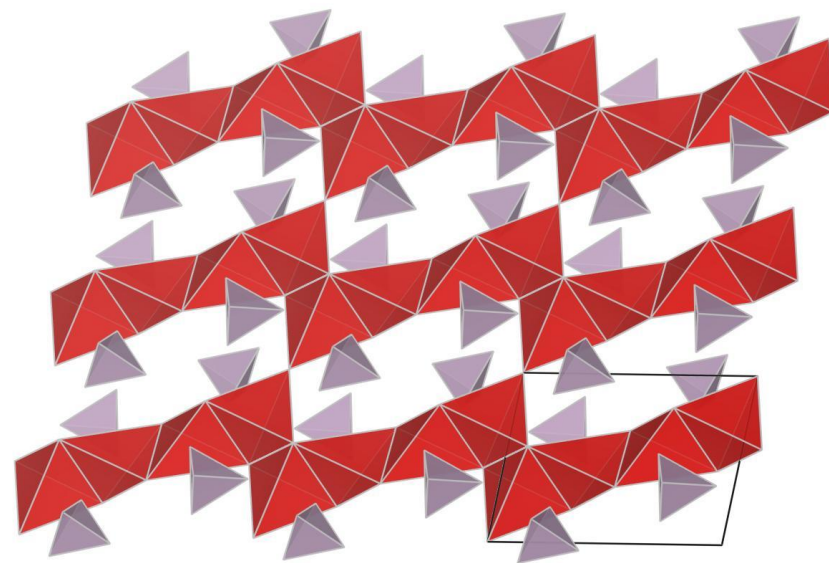
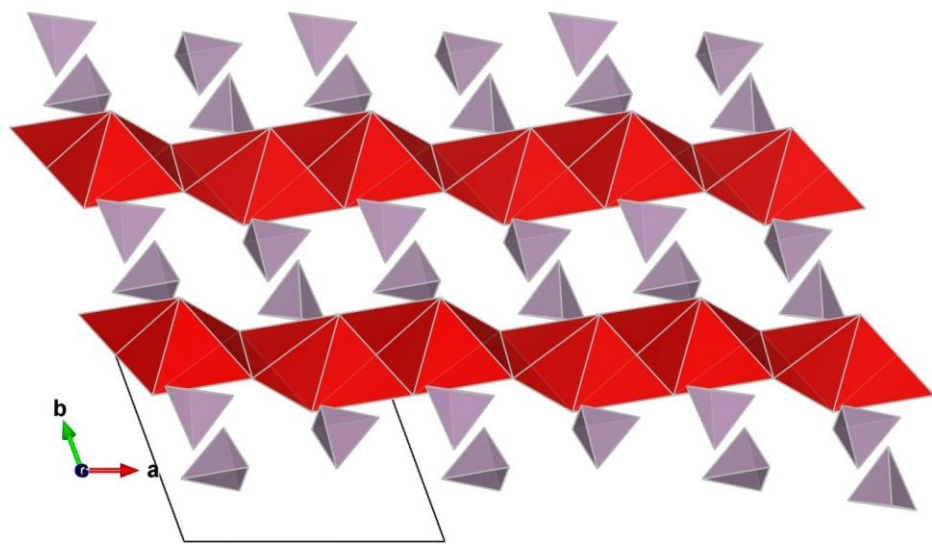
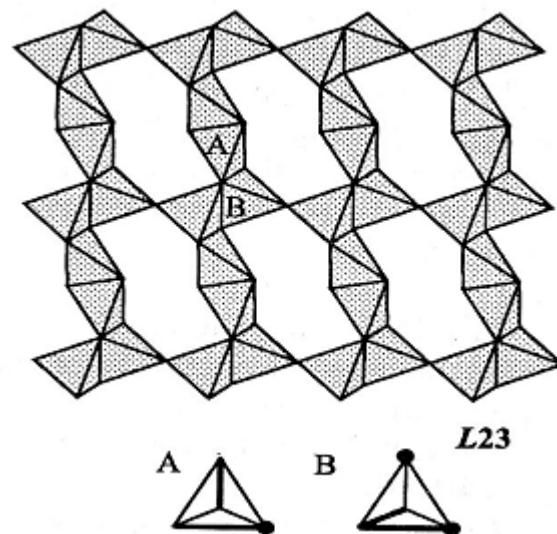
L20



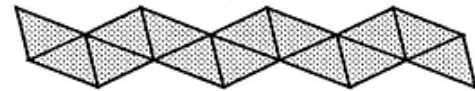
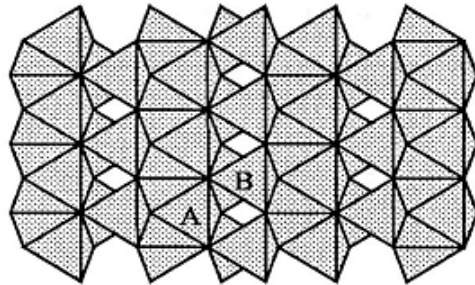
Типы слоистых комплексов



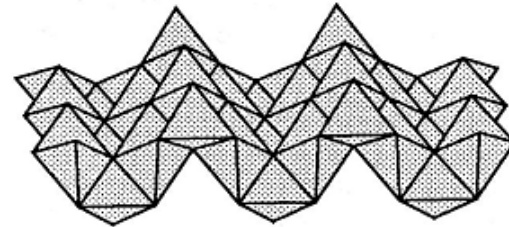
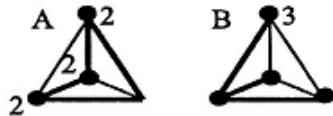
Структура оксофосфата висмута-свинца



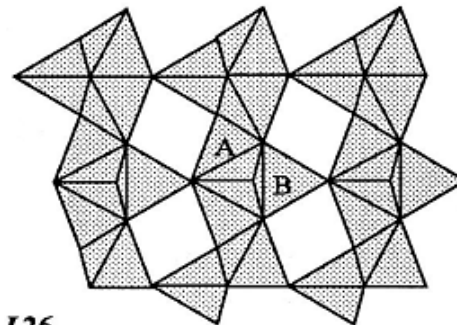
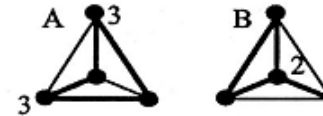
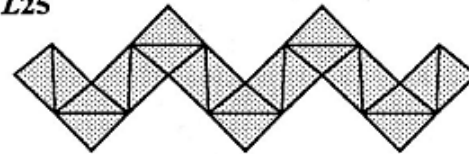
Типы слоистых комплексов



L24



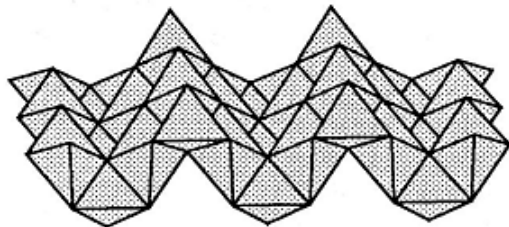
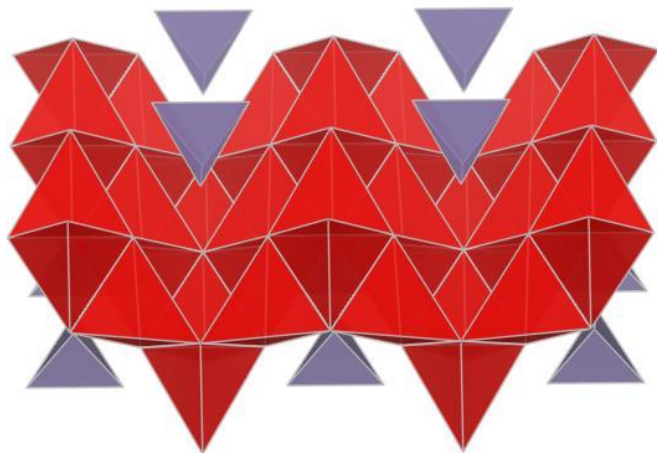
L25



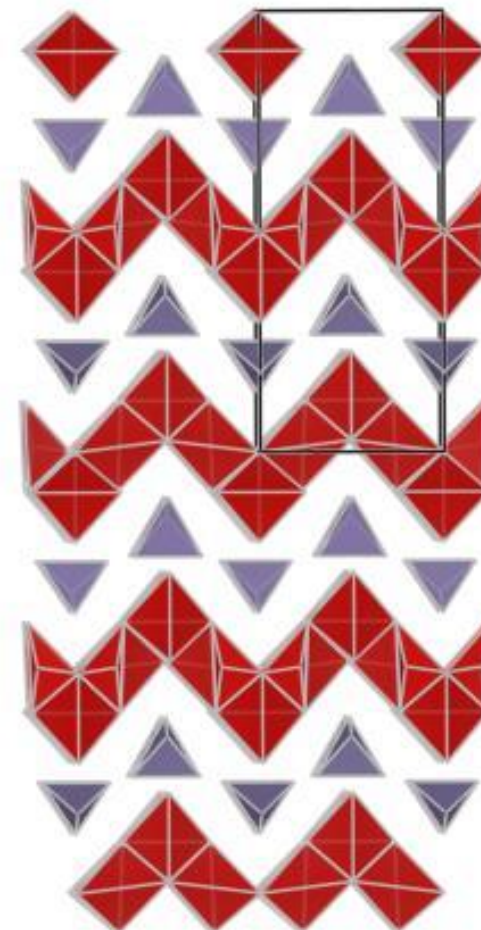
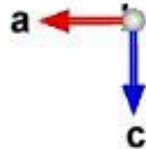
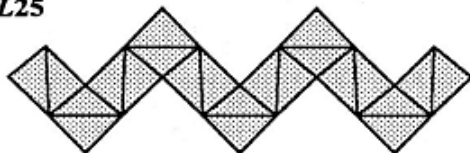
L26



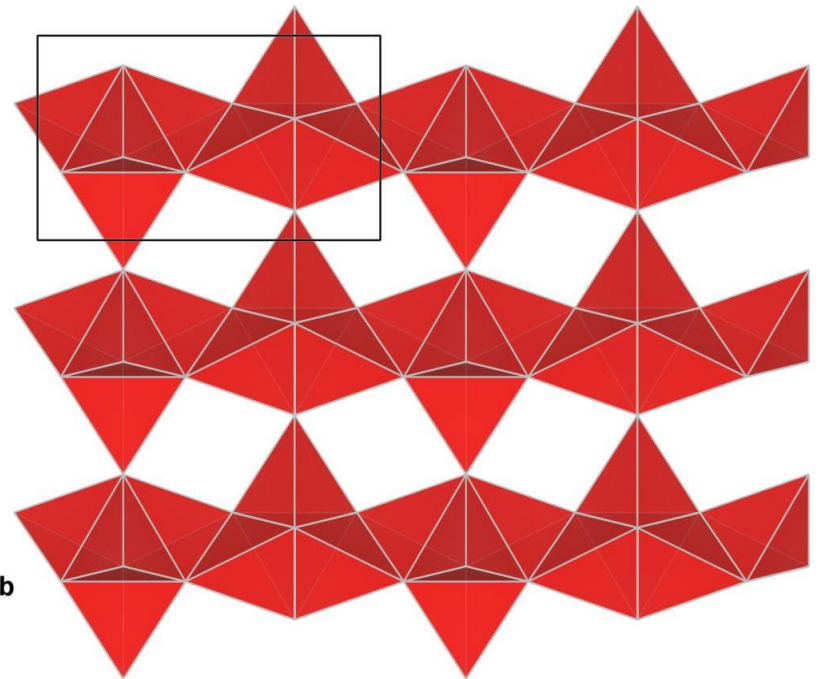
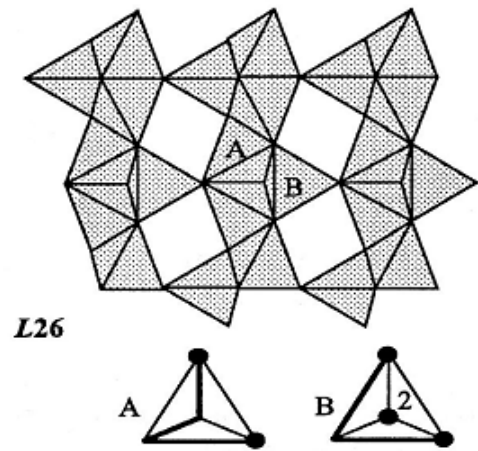
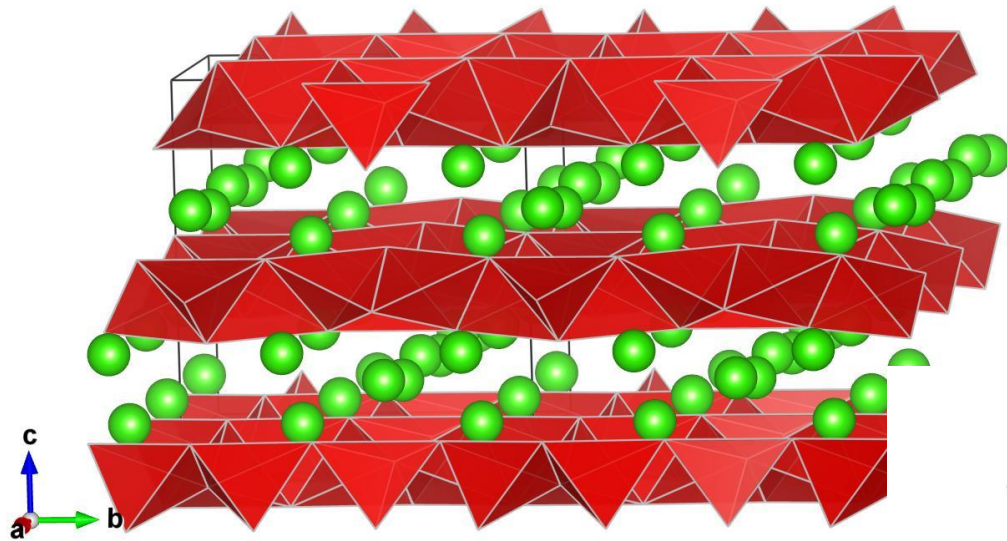
Структура $[O_4Nd_4](GeO_4)$



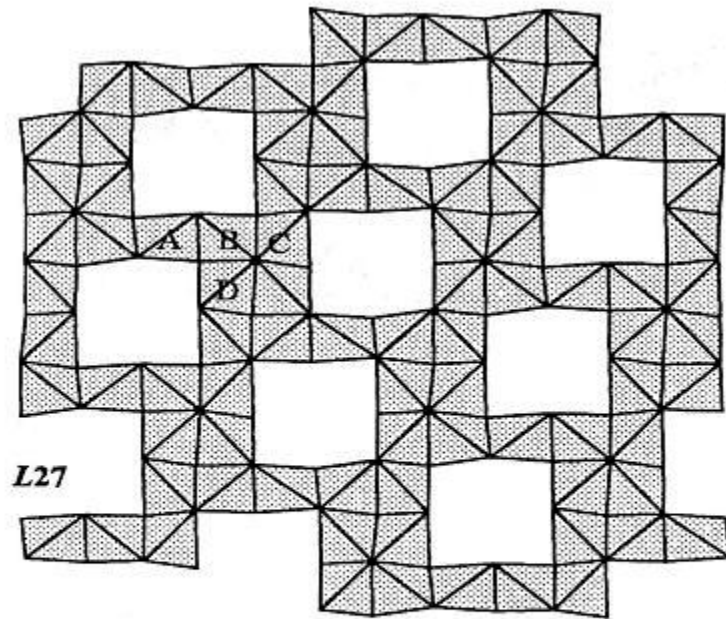
L25



Структура $[O_3Bi_3Ba]Cl_3$



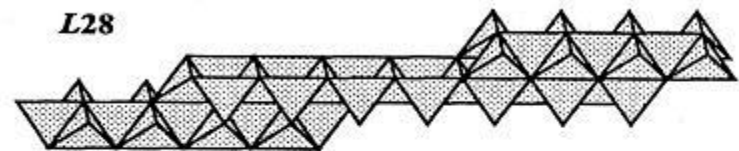
Типы слоистых комплексов



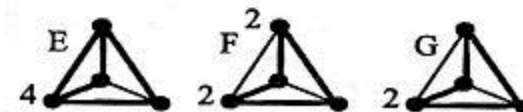
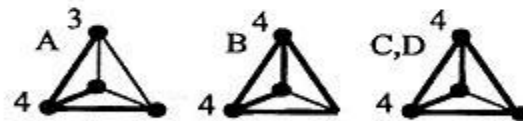
L27



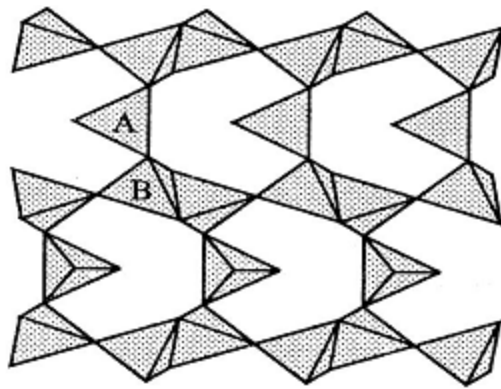
саймесит



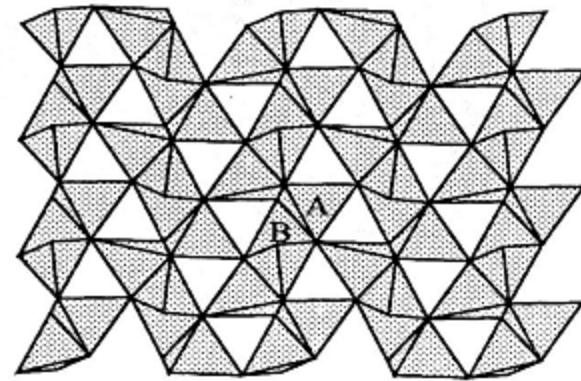
L28



Типы слоистых комплексов



L29

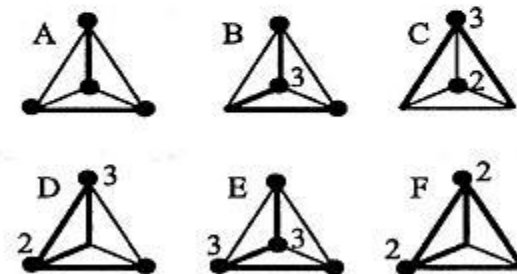
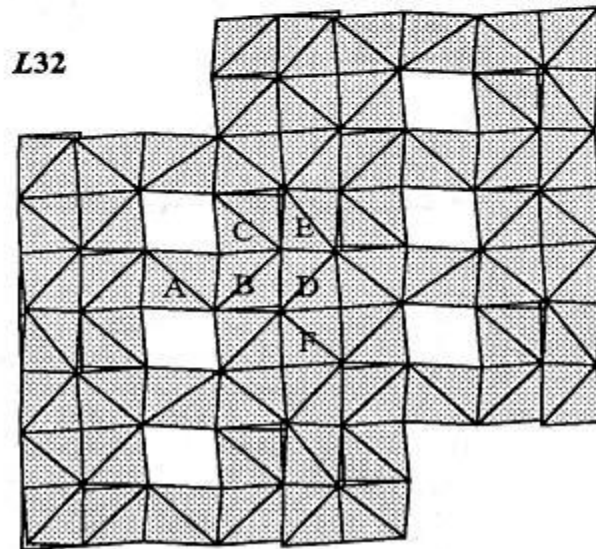
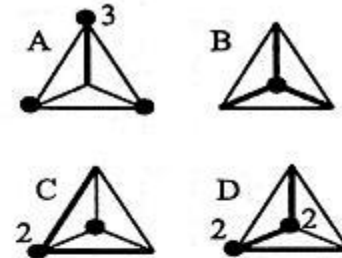
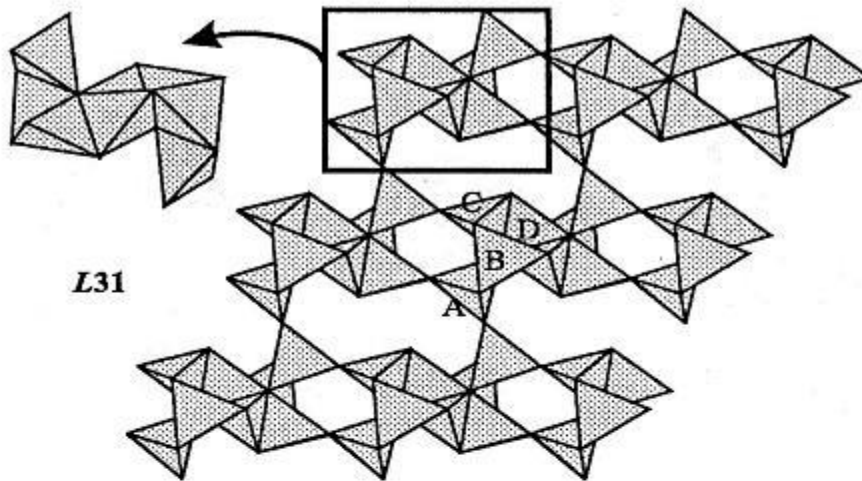


L30



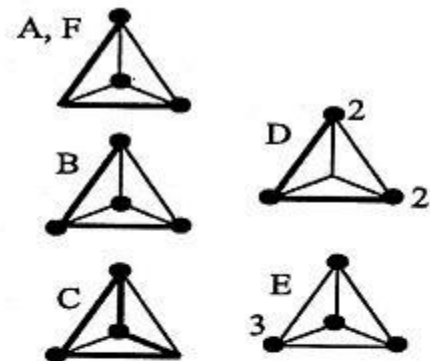
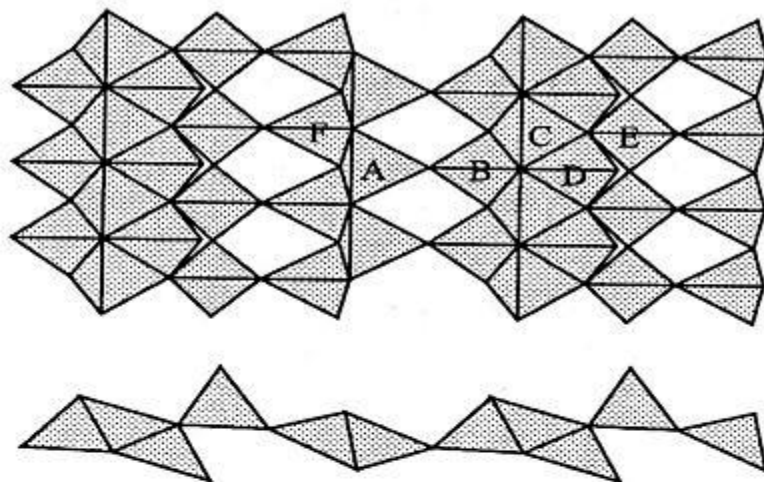
ханавальтит

Типы слоистых комплексов

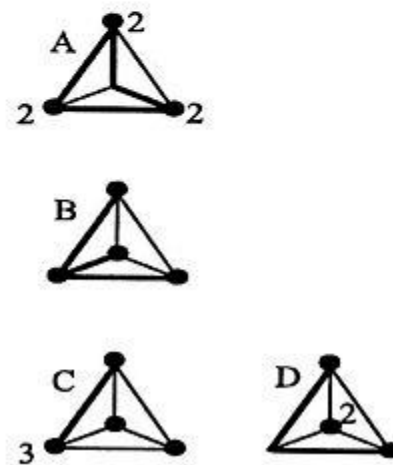
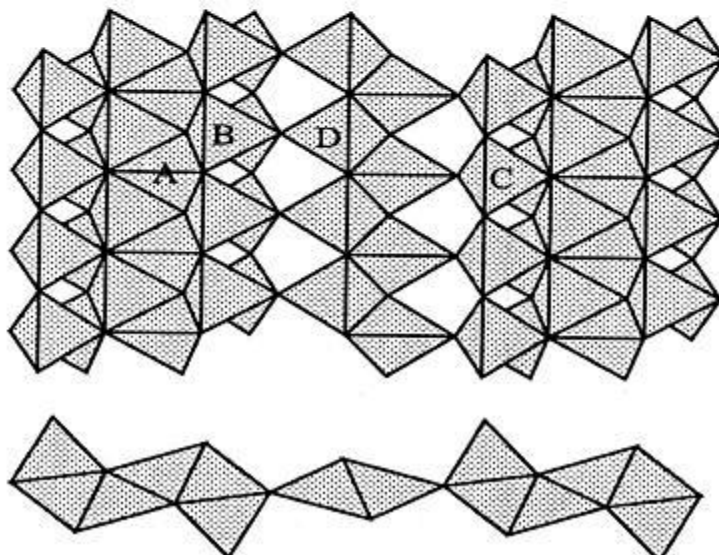


Типы слоистых комплексов

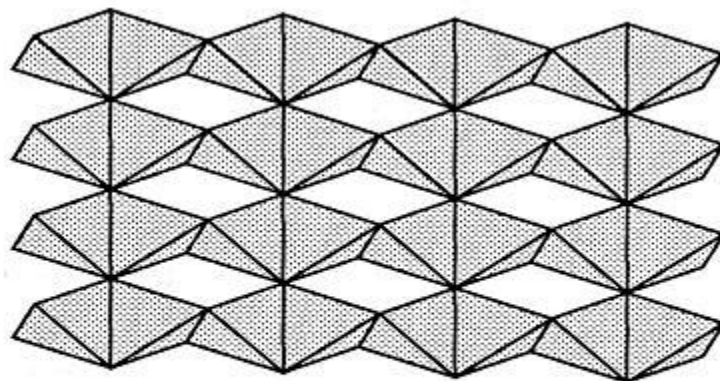
L33



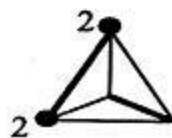
L34



Типы слоистых комплексов

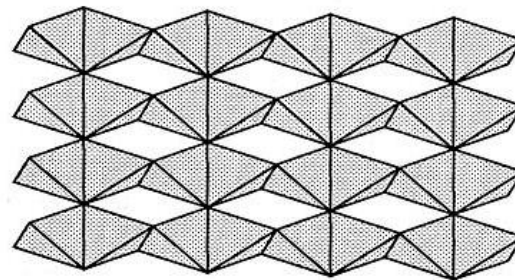
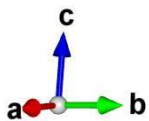
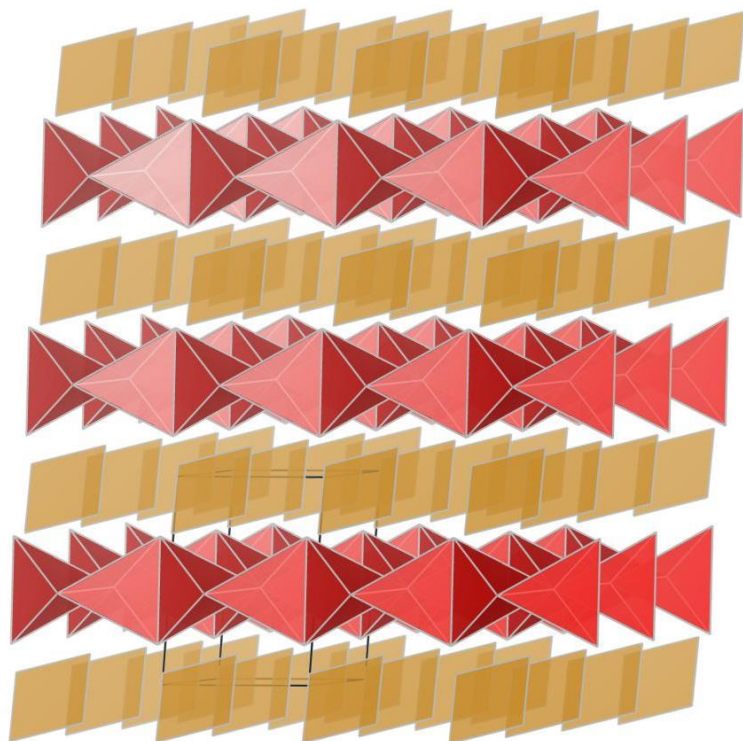


L35

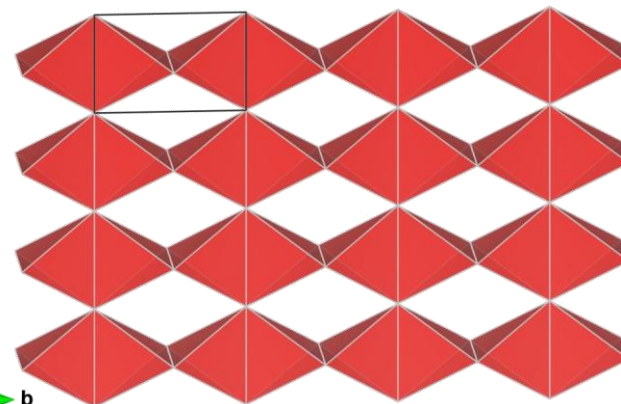
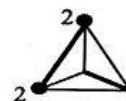


Структура $[O_2Sm_3](AuO_4)$

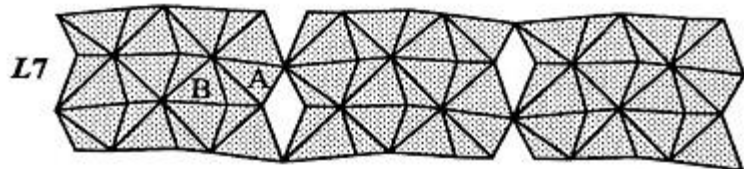
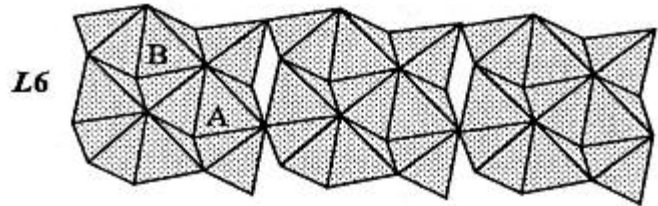
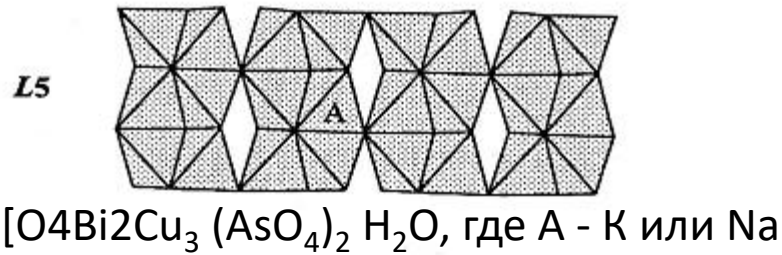
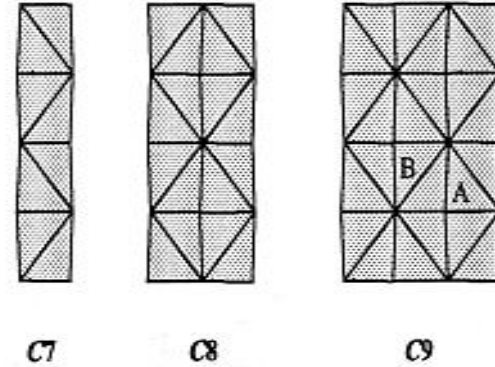
Структура оксоаурата самария



L35



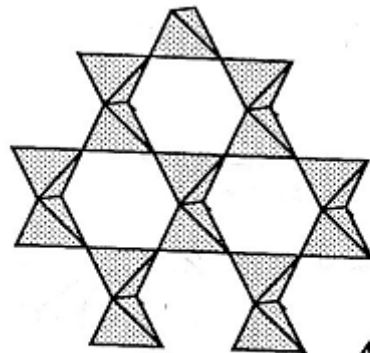
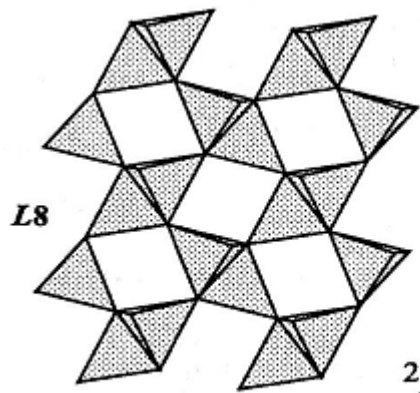
Родственные типы слоистых комплексов



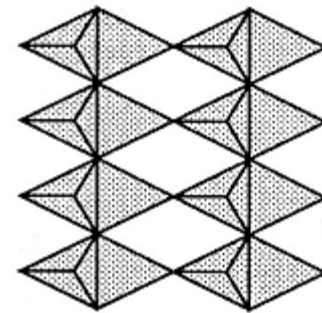
Все представленные слои построены объединением цепочек типа *C7*, *C8*, *C9* и четырехкратной *C7* соответственно через общие «боковые» вершины.

Общая формула слоев $[X_{2n}A_{2n+1}]$, где *n*-кратность слойобразующей цепочки

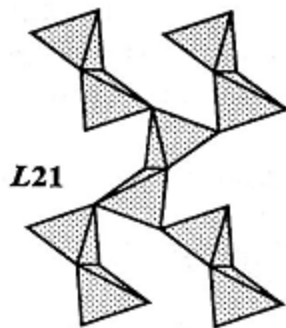
Родственные типы слоистых комплексов



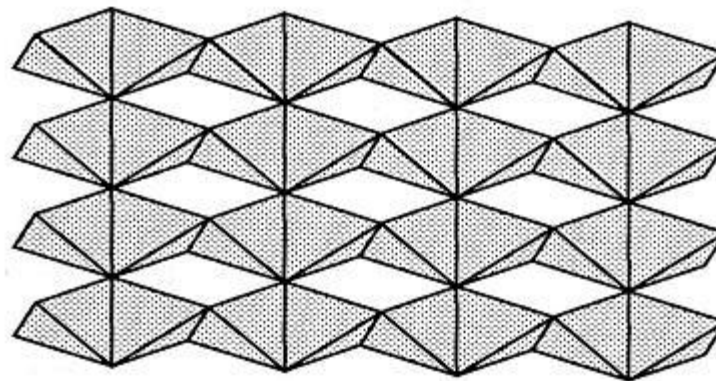
L10



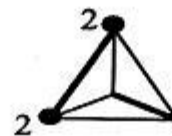
L11



L21

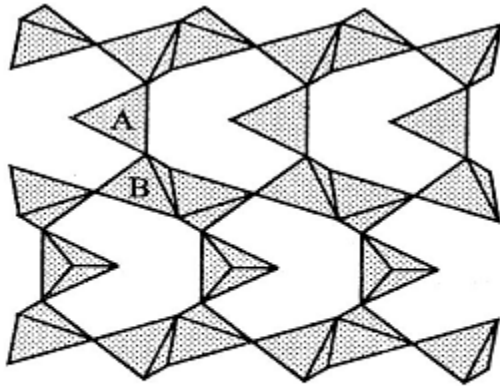
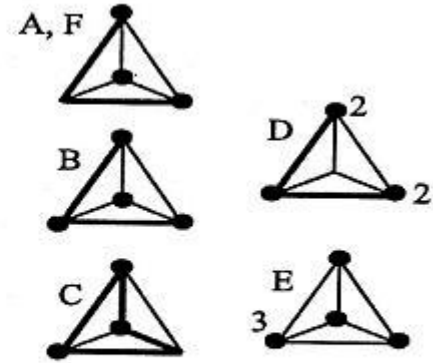
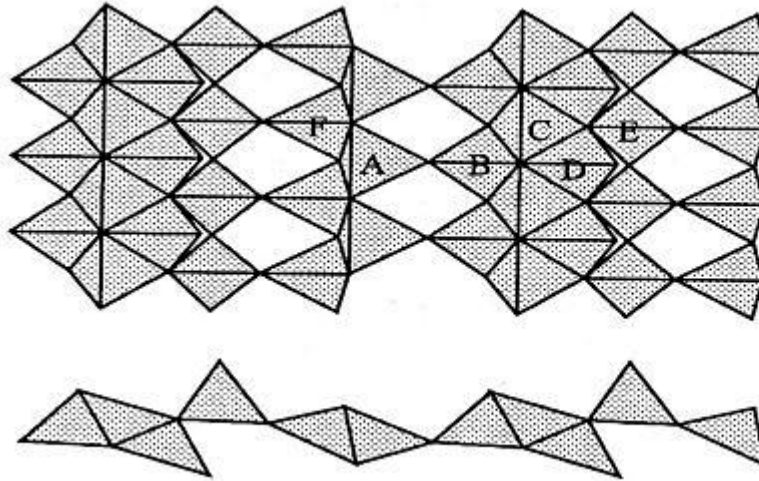


L35



Родственные типы слоистых комплексов

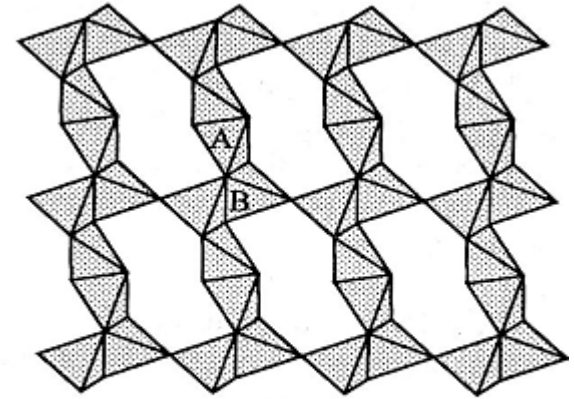
L33



L29



Минерал ханавальтит
 $[\text{Hg}_7\text{O}_3]\text{Cl}_2$ $\text{A}=\text{Bi}_{0,67}, \text{Pb}$

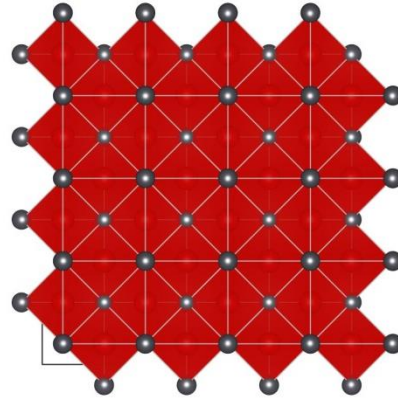
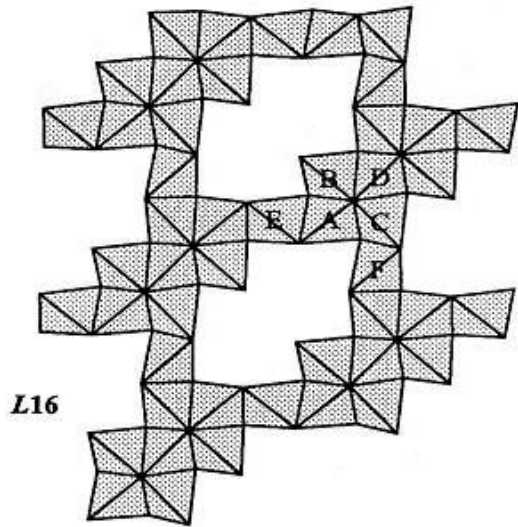


L23

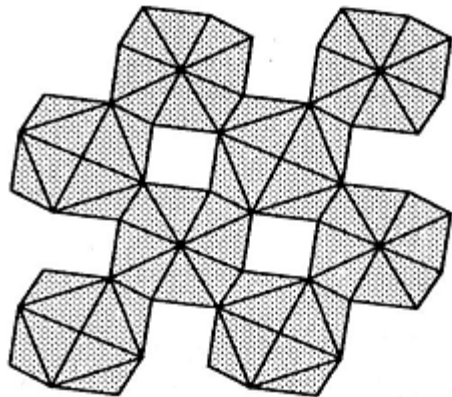
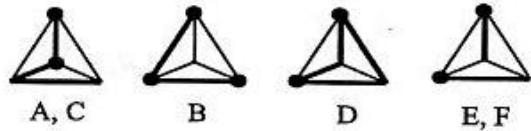


Синтетическое соединение
 $[\text{ABi}_6\text{O}_4](\text{PO}_4)$ $\text{A}=\text{Bi}_{0,67}, \text{Pb}$

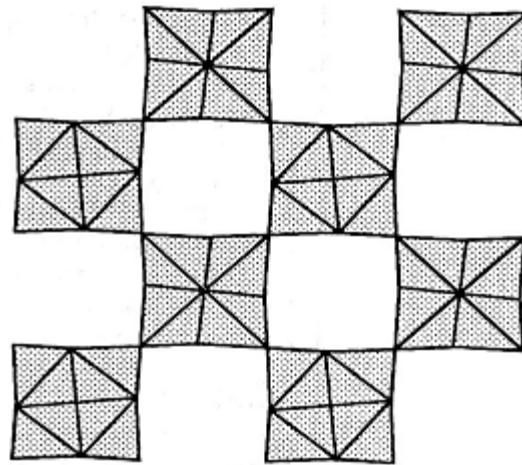
Слоистые комплексы, родственные литаргитовому



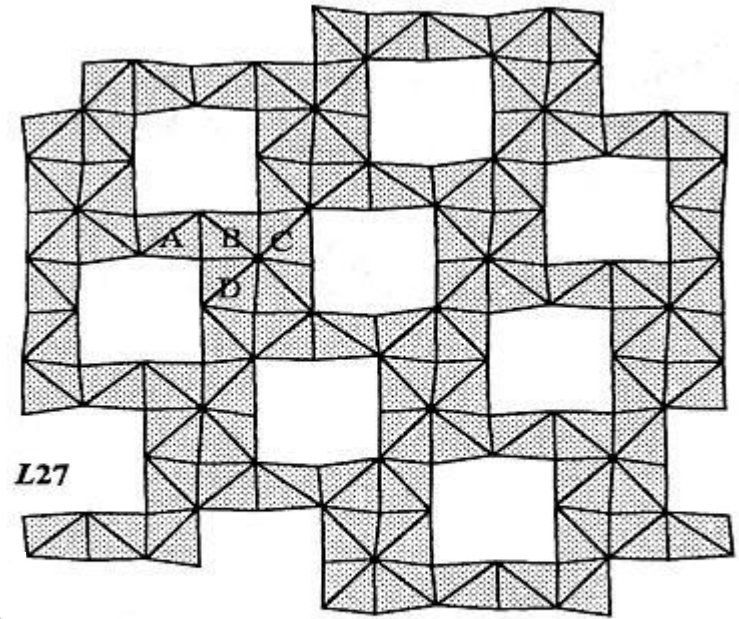
$\rightarrow a$



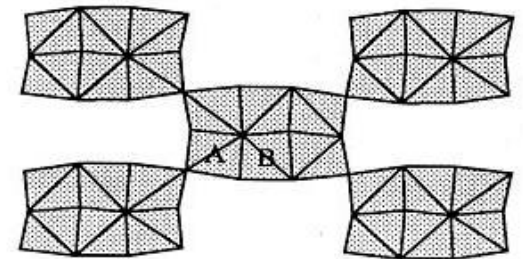
L14



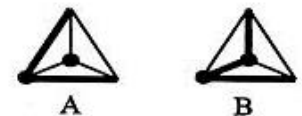
L19



L27



L15



Характеристики анионоцентрированных слоистых КОМПЛЕКСОВ

Тип	X : A	ML	L	M	e^t	e^c	n	Формула связности
L1	2 : 5	1	1	1	1	1	1	(3:1-3)
L2	2 : 5	1	1	1	1	1	1	(3:1-3)
L3	1 : 1	2	1,2	2	1	1	1	(9:1-6;2-3)
L4	4 : 3	2	1,2	4	2	2	1	(13:1-10;2-3)
							1	(18:1-12;2-6)
L5	4 : 5	1,2	1,2	1	1	1	1	(7:1-4;2-3)
L6	6 : 7	1,2	1,2	1	2	2	2	(7:1-4;2-3)
							1	(8:1-4;2-4)
L7	4 : 5	1,2	1,2	1	1	1	1	(7:1-4;2-3)
							1	(8:1-4;2-4)
L8	1 : 2	1,2	1,2	1	1	1	1	(5:1-4;2-1)
L9	2 : 3	1,2	1,2	1	1	1	1	(5:1-3;2-2)
L10	1 : 2	1,2	1,2	1	1	1	1	(4:1-2;2-1)
L11	1 : 2	1,2	1,2	1	1	1	1	(6:1-5;2-1)
L12	1 : 1	2	1,2	1	1	1	1	(8:1-4;2-4)
L13	1 : 1	2	1,2	1	1	1	1	(8:1-4;2-4)
L14	4 : 5	2	1,2	1	1	1	1	(7:1-4;2-3)

Тип	X : A	ML	L	M	e ^t	e ^c	n	Формула СВЯЗНОСТИ	
L15	3 : 5	1,2	1,2	1	2	2	2	(4:1-2;2-2)	
								1	(5:1-2;2-3)
L16	9 : 14	2	1,2	1	4	6	1	(5:1-2;2-3)	
								1	(5:1-3;2-2)
								1	(5:1-2;2-3)
								1	(6:1-2;2-4)
								1	(4:1-2;2-2)
								1	(4:1-2;2-2)
L17	7 : 8	2	1,2	1	3	4	2	(7:1-4;2-3)	
								2	(7:1-4;2-3)
								1	(6:1-2;2-4)
								2	(7:1-3;2-4)
L18	11 : 12	1,2	1,2	1	5	5	2	(9:1-4;2-5)	
								4	(11:1-8;2-3)
								1	(12:1-8;2-4)
								2	(8:1-8)
								2	(9:1-8;2-1)
L19	4 : 7	1,2	1,2	1	1	1	1	(4:1-2;2-2)	
L20	4 : 7	2	1,2	2	1	1	1	(15:1-10;2-5)	
L21	1 : 2	1,2	1,2	1	1	1	1	(3:1-2;2-1)	
L22	4 : 7	1,2	1,2	1	2	2	1	(7:1-6;2-1)	

L23	4 : 7	1,2	1,2	1	2	2	1	(3:1-1;2-2)
							1	(4:1-2;2-2)
L24	1 : 1	2	1,2	2	2	2	1	(10:1-6;2-4)
							1	(9:1-6;2-3)
L25	1 : 1	2	1,2	1	2	2	1	(12:1-8;2-4)
							1	(8:1-4;2-4)
L26	3 : 4	1,2	1,2	1	2	2	2	(5:1-2;2-3)
							1	(6:1-4;2-2)
L27	7 : 10	2	1,2	1	4	4	1	(4:1-2;2-2)
							2	(5:1-2;2-3)
							2	(5:1-2;2-3)
							2	(6:1-3;2-3)
L28	7 : 6	2	1,2	1	6	7	1	(12:1-9;2-3)
							1	(14:1-9;2-5)
							1	(15:1-10;2-5)
							1	(15:1-10;2-5)
							1	(12:1-7;2-5)
							1	(10:1-6;2-4)
							1	(9:1-5;2-4)
L29	3 : 7	1,2	1,2	1	2	2	1	(2:1-2)
							2	(3:1-2;2-1)
L30	2 : 3	1,2	1,2	1	2	2	1	(8:1-6;2-2)
							1	(6:1-4;2-2)
L31	8 : 13	1,2	1,2	1	4	4	1	(6:1-5;2-1)
							1	(4:1-1;2-3)
							1	(5:1-3;2-2)

L32	9 : 10	2	1,2	1	6	6	1	(6:1-4;2-2)
							2	(9:1-5;2-4)
							2	(7:1-5;2-2)
							2	(10:1-6;2-4)
							1	(12:1-8;2-4)
							1	(9:1-4;2-5)
L33	2 : 3	1,2	1,2	1	5	6	1	(5:1-3;2-2)
							1	(6:1-4;2-2)

L34	4 : 5	1,2	1,2	1	4	4	1	(6:1-6)
							1	(5:1-3;2-2)
							1	(10:1-6;2-4)
							1	(7:1-4;2-3)
							1	(7:1-6;2-1)
L35	2 : 3	1,2	1,2	1	1	1	1	(6:1-4;2-6)
							1	(6:1-4;2-2)