

Vavilina Daria

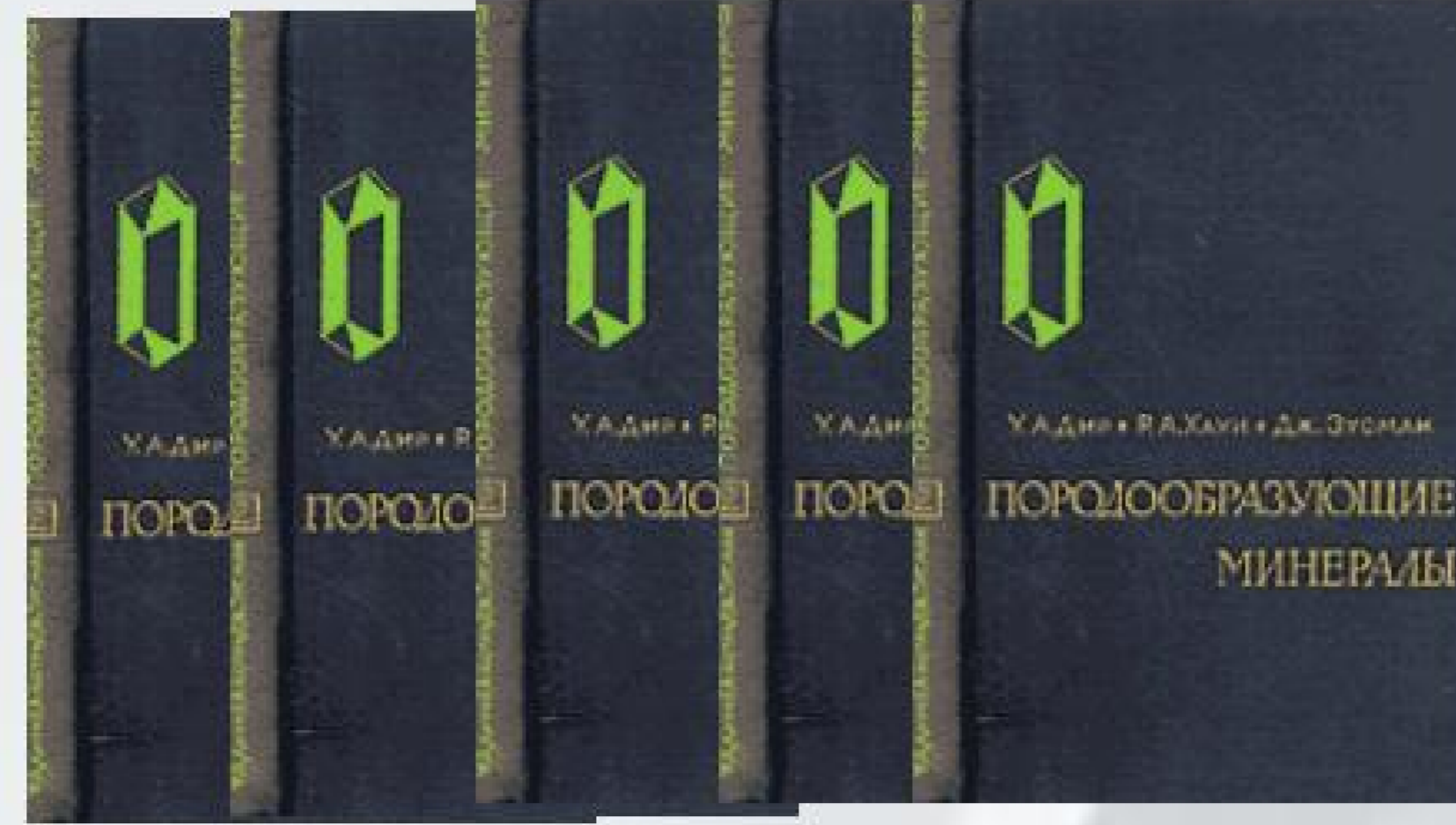
Problem:

Today in Russia there are no special software products for determining minerals by chemical composition, foreign analogues with software products are sold together with analyzers and work only with instrument databases.

Purpose: To create a database of minerals for researchers, mineralogists, petrographers.

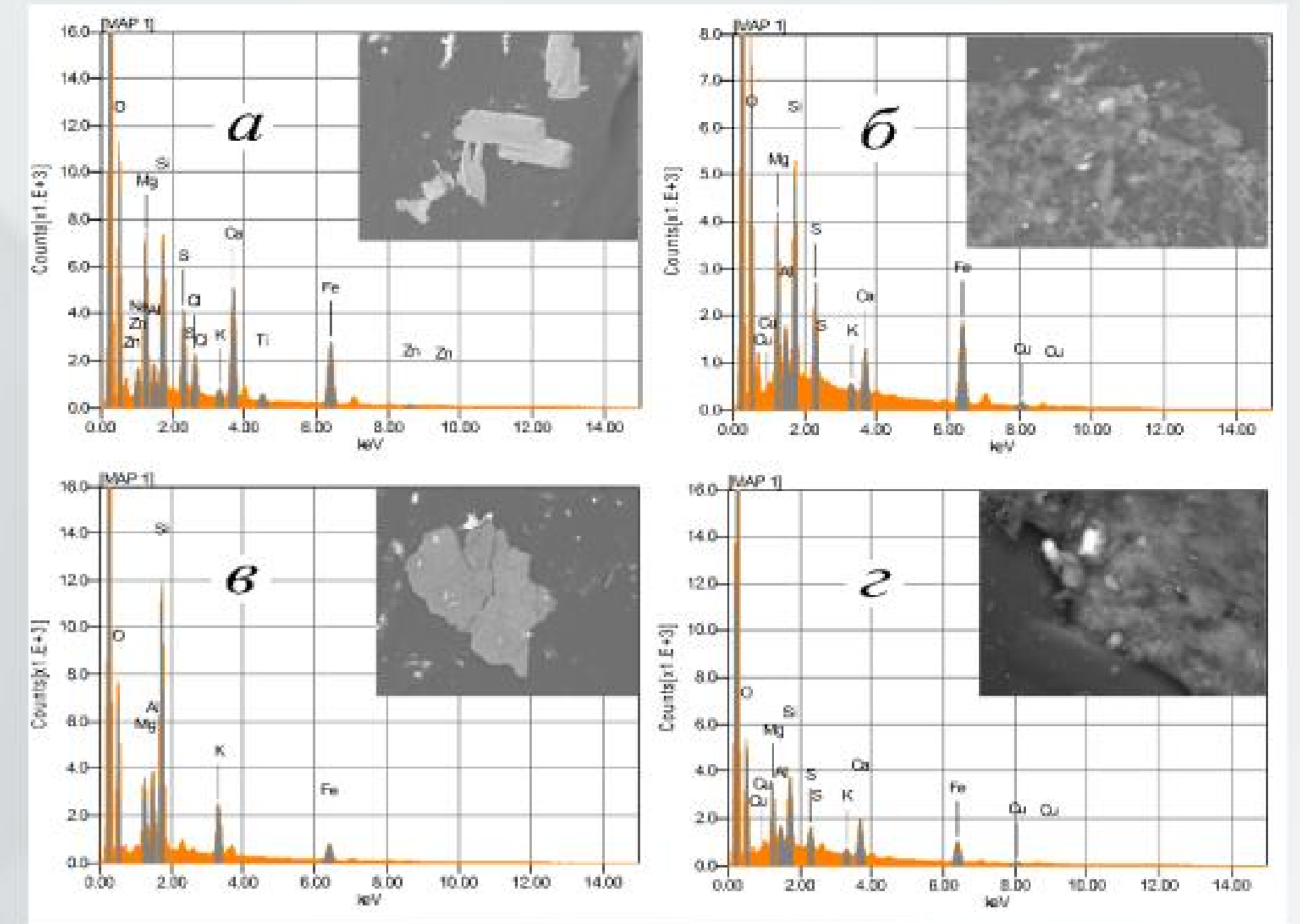
Tasks:

1. Analysis and collection of data on books and collections.
2. Formation of a database of minerals.
3. Creation of software.



5 volumes of textbooks on rock-forming minerals

W. A. Dear, R. A. Howey, J. Zusman **ROCK-FORMING MINERALS. Volume 1-5**

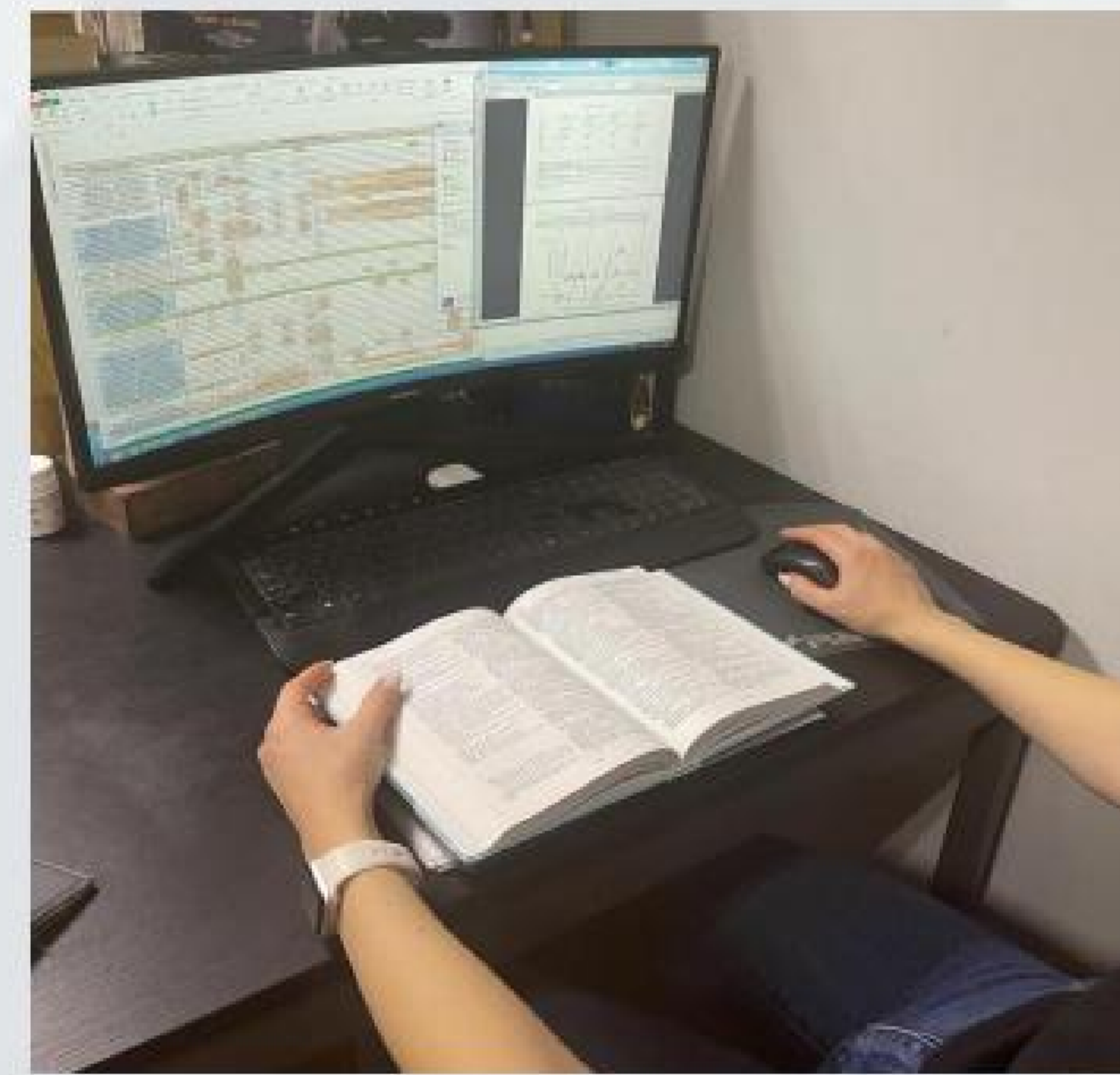


Reports mineralogists ALROSA



	а	б	в	г
SiO ₂	60,00	60,88	61,07	61,30
TiO ₂	—	—	—	0,06
Al ₂ O ₃	1,80	1,80	2,42	0,91
FeO	—	—	0,00	0,00
MgO	1,51	—	—	0,00
MnO	—	—	—	0,00
CaO	30,30	30,18	30,15	30,15
Na ₂ O	0,00	0,00	0,00	0,00
K ₂ O	—	—	—	0,00
H ₂ O	—	—	—	0,00
Сумма	95,61	92,96	93,62	93,42

Stages of work



Database of minerals where you can search for 2-3 chemical elements. In addition, it will be possible to obtain basic information and properties on minerals in one place.

About the product

The tested shell of the program is for the database.

Поиск по химическим параметрам
Жирным выделены собственно минералы.

Как пользоваться поиском: кликайте по одному элементу один раз, затем еще раз, и еще раз - и вы все поймете.

1	H	2	He																																
3	Li	4	Be																																
5	B	6	C	7	N	8	O	9	F	10	Ne																								
11	Na	12	Mg	13	Al	14	Si	15	P	16	S	17	Cl	18	Ar																				
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe
55	Cs	56	Ba	57	La	58	Hf	59	Ta	60	W	61	Re	62	Os	63	Ir	64	Pt	65	Au	66	Hg	67	Tl	68	Pb	69	Bi	70	Po	71	At	72	Rn
87	Fr	88	Ra	89	Ac	90	Th	91	Pa	92	U																								

Включить элементы: Mg, Fe, ОЧИСТИТЬ
 Исключить элементы: ОЧИСТИТЬ
 Исключить все невыбранные

Поиск

- Результаты поиска**
- Авгит (Ca,Mg,Fe)₂Si₂O₆
 - Азоприт (Mg,Fe²⁺)₂(Fe³⁺,Ti,Mg)BO₅
 - Айовант Mg₆Fe³⁺₂(OH)₁₆Cl₂·4H₂O
 - Актинолит □Ca₂(Mg,Fe²⁺)₅[Si₄O₁₁](OH)₂

The cost of foreign software is \$700 to \$1500 per year. They left Russia and not a convenient search, without features to kimberlite deposits in composition.

The cost of our database is 10 thousand rubles. in year.

MARKET:

Scientific subdivisions of PJSC ALROSA Departments: geology, enrichment, specialists studying the material composition of rocks. Institutes of the Russian Academy of Sciences and universities of a mining orientation. Russian scientists of the direction of mining.

An application for state registration of the Database is in progress

