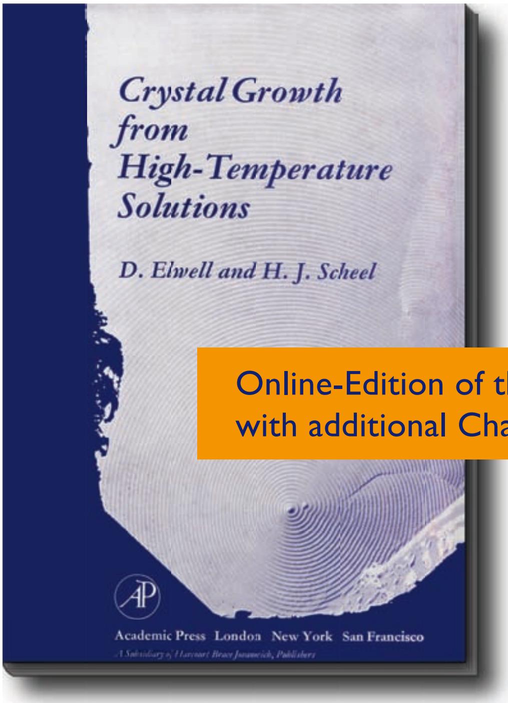

Online-Edition of the original book
with additional Chapter 11 and Appendices A and B

Part 013

10. Crystals Grown from High-Temperature Solutions

In this chapter a list is given of the crystals which have been prepared from high-temperature solutions during the 20th century. This tabulation is intended to provide the crystal grower with an extensive list of references to previous work, which should minimize duplication and permit a choice to be made of a suitable solvent in those cases where successful growth experiments have been reported. The table will also indicate to "crystal consumers" a possible source of crystals.

Previous compilations of crystal syntheses have been made by Laurent (1969), by Wanklyn (1974) and by Wilke (1973), and this chapter includes these earlier tabulations except for references which could not be traced by the authors.

In the table the materials crystallized are listed in the order of the element which is conventionally used as the first symbol in the formula for the compound. For example, zinc ferrite is normally written as $ZnFe_2O_4$ rather than Fe_2ZnO_4 and we have adhered to this normal practice. Solid solutions are listed under the first element alphabetically except where the concentration of this element is very low. Where elements are added in very low concentrations, these are denoted in brackets after the host material, so that Al_2O_3(Cr) denotes chromium-doped alumina crystals; some materials are listed alphabetically by the first authors' names. The second column lists the solvent used in each case and in general no attempt is made to specify an exact composition in those cases where binary or ternary solvent systems have been used. The table is not intended to provide sufficient information for a crystal growth experiment to be attempted but is rather a guide to the literature and reference should be made to the original papers for details of the compositions employed.

In those cases where an extensive investigation was made of several solvent systems for growth of a given solute, the optimum system has been selected according to the original author's findings. As an additional restriction on the length of the table, an exhaustive list was not given of the many experiments in which, for example, GaAs or GaP films were grown under rather similar conditions from Ga solution for device applications or detailed measurements of parameters. Chapter 8 contains many references to this topic and to experiments on the growth of magnetic garnet films, in addition to the references to previous reviews.

Column 3 of the table lists the technique used in the experiment, and the abbreviations used are explained at the head of the table. In column 4 is listed the temperature or temperature range employed, while column 5 gives the value of the parameter which controls the growth rate. In a slow cooling experiment, the parameter listed is the cooling rate in degree/hour, while for an evaporation experiment it is the duration in hours of the experiment which is given since values of the solvent evaporation rate are not normally quoted. The temperature difference across the melt is quoted in the case of gradient transport experiments, and the current is quoted for electrolytic growth.

The size in mm of the largest crystals grown is listed in column 6, or alternatively the largest dimension where only one is given. In some examples of growth under steady state conditions, the growth rate is quoted in mm/day. Some workers prefer to state the crystal weight in g rather than the linear dimensions, and this value has been included in such cases. The reference to the source publication is given in the final column.

Ommisions from the Table and additions of recent data are tabulated in the Appendix. Although an attempt has been made to make the Table and the Appendix comprehensive, some omissions will have occurred. The authors would be grateful for notification of such omissions, or of improvements realized in more recent work, for inclusion in future editions.

Abbreviations used:

ACRT	Accelerated crucible rotation technique	THM	Travelling heater method
CR	Chemical reaction	TR	(Gradient) transport
EL	Electrolysis	TSM	Travelling solvent method
EV	Evaporation	TSSG	Top-seeded solution growth
HPS	High-pressure solution growth	VLS	Vapour-liquid-solid
LPE	Liquid phase epitaxy	VLRS	Vapour-liquid-reaction-solid
SC	Slow cooling	X	Seed crystal

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$AgNiF_3$	AgF	SC	700–435	0.8	3	Gluck *et al.* (1974)
Al	$KNO_3/NaNO_3$	—	600°	—	150 × 4 × 0.5	Makarevich (1965)
AlAs	Al	SC	950–	1.3	small	Faust and John (1964)
$Al_xGa_{1-x}As$	Ga	LPE/SC	800–775	120	10 μm	Sugiyama and Kawakimi (1971)
AlB_2	Al	CR	975	348 h	14 × 10 × 0.01	Sirtl and Woerner (1972)
Al_3Er	Al	SC	900–640	4; 85	∼2	Meyer (1970)
AlF_3	$PbCl_2/PbF_2$	SC	930–650	2	13	Wanklyn (1969)
AlN	Ca_3N_2	SC	1610–1520	3	1 × 0.3	Dugger (1974)
Al_2O_3(Cr)	PbF_2	SC/EV	1400–1000	1.5	15	Adams *et al.* (1966)
Al_2O_3	Na_3AlF_6	SC	1040–960	1.5	12 × 12 × 5	Arlett *et al.* (1967)
Al_2O_3	PbO/B_2O_3, PbF_2/Bi_2O_3	SC	∼1200–800	—	15 × 10 × 0.2	Barks and Roy (1967)
Al_2O_3	PbF_2	SC	1320–950	1–2	20 × 20 × 3	Bibr *et al.* (1966)
Al_2O_3	PbF_2	SC	1300–1100	1–5	30	Butcher and White (1965)
Al_2O_3	$Bi_2O_3/PbF_2/La_2O_3$	SC	1250–1000	2–8	∼10	Chase (1966)
Al_2O_3	$PbF_2/B_2O_3/La_2O_3$	SC	1250–1000	2–8	—	Chase (1966)
Al_2O_3	PbF_2/Bi_2O_3	SC	1250–1000	2–10	6 × 6 × 4	Chase and Osmer (1967)
Al_2O_3	Bi_2O_3/V_2O_5	SC	1300–900	5	5 × 5 × 5	Garton *et al.* (1972b)
Al_2O_3	PbF_2	SC	1250–?	1–2	3 g	Giess (1964)
Al_2O_3	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
Al_2O_3(Ga)	PbF_2	SC	1200–900	3	10	Hart and White, see White (1966)
Al_2O_3	Fluorides	SC	1200–700	—	6 × 6 × 1	Izvekov *et al.* (1968)
Al_2O_3	Na_2O/TiO_2	CR/EV	1550	4 h	∼4 × 4 × 1	Jones (1971)
Al_2O_3	$Pb_5O_2F_6$	SC	1260–1000	3	10 × 10 × 5	Linares (1962c)
Al_2O_3	PbO/B_2O_3	SC	1250–950	0.25–5	1.3/day	Linares (1965)
Al_2O_3	PbO/PbF_2	SC	1250–950	0.25–5		
Al_2O_3	PbF_2/B_2O_3	SC	1250–950	0.25–5		
Al_2O_3	BaF_2/AlF_3	SC	1550–1300	0.25–5		

Al_2O_3	PbO/B_2O_3	TR(X)	1000	$\Delta T=50°$	0.75/day	Linares (1965b)
Al_2O_3(Cr)	PbO/B_2O_3	SC	1300–600	4	$\sim 7\times 7\times 4$	Nelson and Remeika (1964)
Al_2O_3	PbO/B_2O_3	SC	1300–915	2	30 (plate) $5\times 5\times 5$	Remeika (1963)
Al_2O_3	PbF_2	SC/EV	1250–1300	2–3 mm/h	—	Timofeeva (1968)
Al_2O_3(Fe, Cr)	PbF_2	EV	1100–1300	20 h	$4\times 5\times 0.2$	Tsushima (1966)
Al_2O_3	Na_2O/WO_3	TR(X)	$\sim$1200	$\Delta T=50°$	6–8	Voronkova *et al.* (1968a)
Al_2O_3	SrO/WO_3	SC	1500–1100	16	1.5–2	Voronkova *et al.* (1968a)
Al_2O_3	PbF_2	SC	1300–1100	1–5	30	Wallace and White (1967)
Al_2O_3	PbF_2	—	—	—	30 (plate)	White (1961)
Al_2O_3(Cr)	PbF_2	SC	1400–900	1	30 (plate)	White and Brightwell (1965)
Al_2O_3(Cr)	PbF_2	TR/SC	$\sim$1100	0.5	$40\times 40\times 12$	White and Brightwell (1965)
AlP	Al	SC	1350	—	$3\times 3\times 0.5$	Sonomura and Miyaauchi (1969)
AlSb	Al	SC	960–	0.7	small	Faust and John (1964)
AlSb	Al	SC	—	—	small	Wolff *et al.* (1954)
$Al_2(WO_4)_3$	Na_2O/WO_3	SC	1150–700	5–20	1–2	Voronkova *et al.* (1968b)
As	Tl	THM	457	0.5 mm/day	20×9	Tester *et al.* (1971)
B	Pt	SC	1200–830	—	—	Horn (1959)
BN	Li_3N	HPS/SC	1750–1610	55 kb	small	DeVries and Fleischer (1972)
BN	Mg	HPS	1500–1800	66–75 kb	$\sim$0.5	Matecha and Kvapil (1970)
BN	Mg_3N_2, Ca_3N_2	HPS/SC	1750–1300	55 kb	small	Wentorf (1960)
BN	Li_3N	HPS/SC	1750–1600	49 kb	2	Wentorf (1965)
B_6P	Ni	VLRS/TSSG	1300		30	Burmeister and Green (1967)
BP	BPO_4	HPS	850	1200 psi	small	Ananthanarayanan *et al.* (1973)
BP	Cu_3P	TR	1100–450	1 month	$4\times 3\times 2$	Baranov *et al.* (1967)
BP	Ni/P	TR	1200	$\Delta T=5$	4	Chu *et al.* (1973)
BP	Ni	TR	$\sim$1250–400	—	$5\times 2\times 2$	Iwami *et al.* (1971)
BP	P	HPS	1000–1500	$\sim$15 kb	small	Niemyski *et al.* (1967)
BP	$FePB_2$	HPS	—	—	—	Rundquist (1962)
BP	—	SC	—	—	$3\times 1\times 1$	Stone and Hill (1959)
$BaAl_{12}O_{19}$(Pb)	Pb_2OF_2	SC	1200–1000	3	$3\times 3\times 3$	Linares (1962c)
$BaAl_{12}O_{19}$(Fe)	PbF_2	EV	1260	100 h	$2\times 2\times 0.1$	Tsushima (1966)
BaB_2O_4	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaCl_2\cdot BaF_2$	NaCl	SC	950	50	$3\times 2\times 0.1$	Patel and Singh (1969)
$Ba_2Co_xZn_{2-x}Fe_{12}O_{22}$	$NaFeO_2$	SC	1350–900	2–5	—	Agapora and Perekalina (1968)
$BaCrO_4$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaCrO_4$	LiCl	SC	800–	0.7	3	Packter and Roy (1971)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
BaF_2	LiF	TSSG/SC	880–860	—	~1 cm	Neuhaus *et al.* (1967)
$BaFe_{12}O_{19}$	$BaO/PbO/B_2O_3$	SC/ACRT	1200–1300	1.6–10	15 × 2.5	Aidelberg *et al.* (1974)
$BaFe_{12}O_{19}$	$Fe_2O_3 + BaF_2$	CR	1250	50	1	Brixner (1959)
$BaFe_{12}O_{19}$	Na_2CO_3	SC	1200–900	4.5	5.6 g	Gambino and Leonhard (1961)
$BaFe_{12}O_{19}$	Na_2CO_3	SC	1350–900	20	20 mg	Mones and Barks (1958)
$BaFe_6O_{10}$	$BaCl_2$	SC	1250–		0.015	Hamilton (1963)
$BaFe_{12-x}Sc_xO_{19}$	$NaFeO_2$	SC	1250–940	1–3	—	Perekalina and Cheparin (1968)
$BaFe_{12-2x}Ir_xZn_xO_{19}$	Bi_2O_3	SC	1300–1000	1.5	6 × 6 × 1	Tauber *et al.* (1963)
$BaFe_{12-2x}Zn_xTi_xO_{19}$	$BaO/Na_2O/B_2O_3$	SC(X)	—	—	—	Dixon *et al.* (1971)
$BaFeO_{3-x}$	$Ba(OH)_2$	HPS	600	1 kb	20.1	Takeda *et al.* (1974)
$BaGe_4O_9$	GeO_2	TSSG/SC	1369–	0.5	22 g	Belruss *et al.* (1971)
$Ba_2MgGe_2O_7$	BaO/GeO_2	TSSG/SC	1345–	1	72 g	Belruss *et al.* (1971)
$Ba_3MgTa_2O_9$	BaF_2/MgF_2	CR/SC	1315–970	3.5	1–4	Weaver and Li (1969)
$Ba_5(MnO_4)_3Cl$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaMoO_4$	Li_2MoO_4	TSSG/TR	1040–1140	0.5 mm/h	60 × 15	Chen (1973)
$BaMoO_4$	LiCl, $BaCl_2$	SC	1000–	0.7	4	Packter and Roy (1971)
$BaNb_2O_6$	BaB_2O_4	SC	1450–1350	2	small	Galasso *et al.* (1968)
$BaNb_2O_6$, $Ba_5Nb_4O_{15}$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
BaO	Ba	EV	900	60–80 h	—	Libowitz (1953)
BaO	Ba(OH)	CR/EV	510	30 days	2	Lynch and Lander (1959)
$Ba_5(PO_4)_3Cl$	$BaCl_2$	CR	—	—	small	Brixner and Babcock (1968)
$BaPbO_3$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaSO_4$	LiCl, $BaCl_2$	SC	1000–	0.7	1.4	Packter and Roy (1971)
$BaSO_4$	NaCl	SC/EV	900–700	10	6 × 3	Patel and Bhat (1971)
$BaSO_4$	NaCl	SC	1000–700	65	~1	Patel and Koshy (1968)
$BaSO_4$	LiCl, NaCl	SC	1000–800	5	~8	Wilke (1962)
$BaSb_2O_6$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaSi_2O_5$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaSnB_2O_6$	BaB_2O_4	SC	1300–	5–50	small	Schultze *et al.* (1971)
$BaTa_2O_6$	BaB_2O_4	SC	1500–1100	1–2	few mm	Layden (1967)
$Ba_5Ta_4O_{15}$	PbO				0.1	Shannon and Katz (1970)
Ba_2TiO_4	$BaCl_2/BaCO_3$	SC	1340–	fast	—	Bland (1961)
$BaTi_3O_7$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaTiO_3$	$BaCl_2$	EV	1200–1300	—	4 × 4 × 0.5	Arend (1960)
$BaTiO_3$	KF	SC	1090–	20		Arend and Novak (1966)

$BaTiO_3$	KF	SC	1100–	20		Arend *et al.* (1969)
$BaTiO_3$	TiO_2	TSSG/SC	1377–	0.5	24 g	Belruss *et al.* (1971)
$BaTiO_3$	Na_2CO_3/K_2CO_3	TR/CR	800–900	3 days	10–2	Belyaev (1962)
$BaTiO_3$	$BaCl_2$	SC	1200–750	—	—	Belyaev *et al.* (1951)
$BaTiO_3$	$BaCl_2$	SC/EV	—	—	—	Benes *et al.* (1955)
(Ba, Sr)TiO_3	TiO_2	TSSG/SC	1500–1340	0.5	8	Bethe and Welz (1971)
$BaTiO_3$	$BaCl_2$	SC	—	—	2	Blattner *et al.* (1947)
$BaTiO_3$	$BaCl_2$	SC	1220–	14 days	$\sim 3 \times 3 \times 3$	Blattner *et al.* (1949)
$Ba_4Ti_2PtO_{10}$	$BaCl_2$	SC	1110–20	5 days	4×2	Blattner *et al.* (1949)
$BaTi_{0.75}Pt_{0.25}O_3$	Na_2CO_3/K_2CO_3	SC	940–	14 days	3×3	Blattner *et al.* (1949)
$Ba_{1-x}Pb_xTiO_3$	KF	SC	1200–400	—	5	Bogdanov *et al.* (1960)
$BaTi_{1-x}Sn_xO_3$	KF	SC	1200–400	—	—	Bogdanov *et al.* (1960)
$BaTiO_3$	KF	SC	1120–975	12	twins	Bradt and Ansell (1967)
(Ba, Pb)TiO_3	KF	SC	1100–1000–8000	20–50	5×0.5	Cherepanov (1962)
$BaTiO_3$(Ni)	KF	SC	1090–	20	0.03–0.2	Coufova and Novak (1969)
$BaTiO_3$	KF	EV	1000		film	DeVries (1962)
$BaTiO_3$	KF	SC	950–	10	$5 \times 5 \times 5$	Eustache (1957)
$BaTiO_3$	$BaCl_2$	SC	1300–1030	10–15	12×0.1	Feltz and Langbein (1971)
$BaTiO_3$	KF	SC	1150–850		$\sim 6 \times 6 \times 0.5$	Gavrilyachenko *et al.* (1968)
$BaTiO_3$	$BaCl_2$	EV	1400–1480	—	—	Gliki *et al.* (1956)
$BaTiO_3$	BaB_2O_4	SC	1150–950	3	2	Goto and Cross (1969)
$BaTiO_3$	Na_2CO_3	SC	1200–900	20	$10 \times 10 \times 0.3$	Kawabe and Sawada (1957)
$Ba_{1-x}Sr_xTiO_3$	KF	EV/SC	~1100–850	—	1.5	Khodakov *et al.* (1956, 1958)
$BaSn_xTi_{1-x}O_3$	KF	SC	—	11–15	12 (plate)	Khodakov and Sholokhovich (1960)
$BaTiO_3$(Ni)	KF	SC	1160→	30	$5 \times 5 \times 0.1$	Kudzin (1962)
$BaTiO_3$(Ni)	NaF	SC	—	—	—	Kudzin *et al.* (1964)
$BaTiO_3$	$BaCl_2$	SC	1200–800	—	—	Matthias (1948)
$BaTiO_3$	KF	SC	1125–1000	25	—	Nielsen *et al.* (1962)
(Ba, Pb)TiO_3	BaB_2O_4/PbB_2O_4	TSSG/SC	1200–950	0.2	$\sim 15 \times 8$	Perry (1967)
(Ba, Pb)TiO_3	KF	SC	1050–900	13	twins	Perry *et al.* (1967)
$BaTiO_3$	KF	SC	1200–900	—	—	Remeika (1953)
$BaTiO_3$(Fe)	KF	SC	1200–850	—	—	Remeika (1954)
$BaTiO_3$(Fe)	KF	SC	1190–855	20	$34 \times 24 \times 0.4$	Remeika (1958a)
$BaTiO_3$(Bi)	KF	SC	1100–900	15	—	Remeika *et al.* (1966)
$BaTiO_3$	KF	SC	1200–830	60	$15 \times 15 \times 0.2$	Sasaki (1965)
$BaTiO_3$	KF	SC	1200	30–50	—	Sasaki (1965)
$BaTiO_3$	KF + BaO	SC	1150–900	50	6	Sasaki (1968)
$BaTiO_3$	KF	SC	1180–850	5	—	Sasaki and Kurokawa (1965)
Ba(Ti, Sn)O_3	KF	SC	1200–900	11	11×0.4	Sholokhovich and Khodakov (1962)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$Ba_{1-x}Pb_xTiO_3$	KF	SC	1000→	—	—	Sholokhovich *et al.* (1956)
$BaTiO_3$	KF	SC	1200–800	14–18	16 × 3	Sholokhovich *et al.* (1968)
$BaTiO_3$	$BaCl_2$	SC	1400	20, 4	2	Timofeeva (1959)
$BaTiB_2O_6$	BaB_2O_4	SC	1040–	5–50	small	Schultze *et al.* (1971)
$Ba_5(VO_4)_3Cl$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaWO_4$	$BaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$BaWO_4$	LiCl	SC	700–800	—	small	Packter and Roy (1973)
$BaWO_4$	LiCl, $BaCl_2$	SC	1000–	0.7	4	Packter and Roy (1971)
$BaWO_4$	NaCl	SC	1000–750	2	3	Patel and Arora (1973)
$BaWO_4$	$Na_2W_2O_7$	SC	1100–1250→700	2.5	10 × 5 × 5	Van Uitert and Soden (1960)
$Ba_w(Zn, Mn, Ni)_xFe_yO_z$	$BaB_2O_4/NaFeO_2$	SC	1375–950	0.5–4	3 × 0.5	Savage and Tauber (1967)
$BaY_2Mg_2Ge_3O_{12}$	BaO/GeO_2	TSSG/SC	1570–	1	48 g	Belruss *et al.* (1971)
$Ba_2Zn_2Al_xFe_{12-x}O_{22}$	BaO/B_2O_3	SC	1350–800	2–3	5 × 3 × 1	Agapora *et al.* (1969)
$Ba_2Zn_2Fe_{12}O_{22}$	$Ba_2B_2O_5$	TSSG/SC	1200	0.1–0.2	10 g	Aucoin *et al.* (1966)
$Ba_2Zn_2Fe_{12}O_{22}$	BaO/B_2O_3	SC/TR	1250→	0.25	15	Gendelev and Zvereva (1971)
$Ba_4Zn_2Fe_{36}O_{60}$	$NaFeO_2$	SC	~1300→	~4	—	Kerecman *et al.* (1968)
$Ba_4Zn_2Fe_{36}O_{60}$	BaO/B_2O_3	SC	1300–1000	0.5	—	Kerecman *et al.* (1969)
$Ba_2Zn_2Fe_{12}O_{22}$	$NaFeO_2$	SC	1250(–1375)→	0.75–4	12 × 12 × 6	Savage and Tauber (1964)
$Ba_2Zn_2Fe_{12}O_{22}$(Mn)	$Ba_2B_2O_5$	SC	1250–1050	1	6 × 6 × 3	Savage *et al.* (1965)
$BaZn_2Fe_{12}O_{22}$	$Ba_2B_2O_5$	SC/TSSG	1300–900	0.5–5	—	Shinoyama and Suemune (1970)
$Ba_2Zn_2Fe_{12}O_{22}$	$Na_2Fe_2O_4$	SC	1250–1050	0.75–4	12 × 12 × 3	Tauber *et al.* (1963)
$Ba_2Zn_2Fe_{12}O_{22}$	BaO/B_2O_3	SC	1300–1000	0.5–2	6 × 6 × 3	Tauber *et al.* (1964)
$BaZrB_2O_6$	BaB_2O_4	SC	1300–	5–50	small	Schultze *et al.* (1971)
$BeAl_2O_4$	$PbF_2/PbO/SiO_2/B_2O_3$	SC	1300–700	0.5	44	Bonner and Van Uitert (1968)
$BeAl_2O_4$	PbO	SC	1375–	12.5	2 × 2 × 2	Farrell and Fang (1964)
$Be_3Al_2Si_6O_{18}$	Li_2O/MoO_3	SC	1100–800	2–5	8	Ashida (1968)
$Be_3Al_2Si_6O_{18}$	V_2O_5	TR(X)	600–1200	—	0.7/day	Ballman *et al.* (1966)
$Be_3Al_2Si_6O_{18}$	Li_2O/MoO_3	SC	975–790	4	1	Lefever *et al.* (1962)
$Be_3Al_2Si_6O_{18}$	V_2O_5	TR(X)	1050	$\Delta T = 50$	~10 × 6 × 6	Linares *et al.* (1962)
$Be_3Al_2Si_6O_{18}$	PbO/V_2O_5	SC	1250–900	1	5 mm^3	Linares (1967b)
$Be_3Al_2Si_6O_{18}$	PbO/V_2O_5	TR	1000	$\Delta T = 50$	25 × 25 × 10	Linares (1967b)
BeO	Li_2O/MoO_3	SC	1400–	1.5–25	5	Austerman (1963)
BeO	Li_2O/MoO_3	TR	~1150	$\Delta T = 30$	2	Austerman (1964)
BeO	KOH	—	400–500	—	0.3 × 0.06	Levin *et al.* (1952)
BeO	$Pb_{20}O_7F_{26}$	SC	1150–750	1	25	Linares (1962c)

BeO	$Na_2B_4O_7$	SC	1250–900	1–5	—	Linares (1967a)
BeO	Li_2O/MoO_3 etc.	TR	~1100	$\Delta T = 20$	6	Newkirk and Smith (1965)
BeO	Li_2O/MoO_3	EV	1165	5 days	1–5	Osmer and Chase (1972)
Be_2SiO_4	$Na_2Mo_3O_{10}$	TR	900–1000	$\Delta T = 40–80$	2 mm/day	Ballman and Laudise (1965)
Be_2SiO_4	Li_2O/MoO_3	EV	1165	5 days	1–5	Osmer and Chase (1972)
$Bi_{3-2x}Ca_{2x}Fe_{5-x}V_xO_{12}$	PbO/Bi_2O_3	SC	1200–1000	3–10	5	Espinosa and Geller (1964)
$Bi_{3-2x}Ca_{22}Fe_{5-x}V_xO_{12}$	PbO/Bi_2O_3	SC	1200–1050	2	12	Hodges *et al.* (1967)
$Bi_{3-2x}Ca_{2x}Fe_{5-x}V_xO_{12}$	PbO/B_2O_3	SC	1200–1050	0.5–1	8	Krishnan (1969)
$Bi_{3-2x}Ca_{2x}Fe_{5-x}V_xO_{12}$	PbO/Bi_2O_3	SC	1200–1000	1	35 × 30, 60 g	Suzuki *et al.* (1971)
$BiFeO_3$	Bi_2O_3	SC + EV	860(820)–760	1.5	1–2	Teague *et al.* (1970)
$Bi_2Fe_4O_9$	Bi_2O_3	EV(?)	850	—	0.1–0.3	Koizumi *et al.* (1964)
$Bi_2Mo_2O_9$	MoO_3	TSSG/TR	670	0.5–0.7 mm/h	30 × 10	Chen (1973)
$Bi_2Mo_3O_{12}$	MoO_3	TSSG/TR	~650	0.25–0.5 mm/h	50 × 20	Chen (1973)
$Bi_{0.5}Na_{0.5}TiO_3$	NaF	SC	1300–850	10–15	3 × 3 × 2	Homma and Wada (1971)
$Bi_2Sn_2O_7$	PbF_2	SC	1280–900	6	2 × 2 × 2	Wanklyn (1972)
$Bi_2Sn_2O_7$	KF	SC	1100–850	6	1 × 1 × 1	Wanklyn (1972)
$Bi_4Ti_3O_{12}$	Bi_2O_3	SC	1100–940	10	sheets 100 μm	Cummins and Cross (1968)
$Bi_4Ti_3O_{12}$	Bi_2O_3	SC	—	—	small	Van Landuyt *et al.* (1969)
$Bi_4Ti_3O_{12}$	Bi_2O_3	SC	1200–	—	sheets	Van Uitert and Egerton (1961)
C(diamond)	—	—	—	—	small	Bezrukov *et al.* (1966, 1969)
C(diamond)	Fe, Ni	—	—	—	1	Bundy *et al.* (1955)
C(diamond)	—	—	—	—	—	Litvin and Butuzov (1968)
C(diamond)	—	—	—	—	—	Lundblad (1964)
C(diamond)	Nı	HPS	1500–1800	60–75 kb	0.5	Matecha and Kvapil (1970)
C(diamond)	Fe, Ni	TR	1550–1400	57 kh	5 × 4 × 4	Strong and Chrenko (1971)
C(diamond)	Ni	TR(X)	1450	54 kb	0.5	Strong and Hanneman (1967)
C(diamond)	Fe, Ni	TR/SC	1500–1400	55–60 kb	~6	Strong and Wentorf (1972)
C(graphite)	Fe, Ni	SC	1500–	1–2.5	3	Austerman *et al.* (1967)
C(graphite)	Fe, Ni	TR	1200–1500	—	—	Austerman *et al.* (1967)
C(graphite)	Fe, etc.		review	—	—	Austerman (1968)
C(graphite)	Fe, Ni	SC	1500–700	1–2.5	~2	Austerman *et al.* (1968)
C(graphite)	Fe, Ni	TR	1200–1400	$\Delta T = 25–50$	30 × 0.5 × 0.5	Austerman *et al.* (1968)
C(graphite)	Si/Al/Na	SC	—	—	small	Minkoff (1968)
C(graphite)	Fe	SC	1900–1500	5	30 × 0.06	Sumiyoshi *et al.* (1968)
$Ca_3Al_{10}O_{18}$	$CaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$CaAl_{12}O_{19}(Pb)$	Pb_2OF_2	SC	1260–1000	3	3 × 3 × 3	Linares (1962c)
CaB_6	B_2O_3	VLS	1810	—	0.1	Rea and Kostiner (1971)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
CaB_2O_4	LiCl	SC/HPS	1000–	20 kb, 30	small	Marezio *et al.* (1969)
$CaCO_3$	Li_2CO_3	TSM/TR	~750	5 mm/day	30×10	Belin *et al.* (1972)
$CaCO_3$	Li_2CO_3	TSM/TR	700–800	5 mm/day	30×10	Brissot and Belin (1971)
$CaCO_3$	Li_2CO_3	SC	800–650	0.5–1	$10 \times 10 \times 1$	Nester and Schroeder (1967)
$CaCrO_4$	$CaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$CaCrO_4$	LiCl	SC	800–	0.7	0.6	Packter and Roy (1971)
$Ca_3Cr_2(SiO_4)_3$	$Na_2O/K_2O/B_2O_3$	EV	1000	72 h	0.2	Lowell *et al.* (1971)
CaF_2	NaCl/NaF	SC	890–760	15	~1	Leckebusch and Recker (1972)
$CaFe_2O_4$	$CaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$Ca_2Fe_2O_5$	PbF_2/PbO	EV	1245	11 days	4×3 (plate)	Wanklyn (1972)
$CaGe_2O_5$	GeO_2	TSSG/SC	1208–	0.5	25 g	Belruss *et al.* (1971)
$CaMgSi_2O_6$	PbO	SC	1350–900	2	2	Grodkiewicz and Van Uitert (1963)
$CaMn_2O_4$	$CaCl_2$	CR	1000, 1200	2 h	5	Brixner and Babcock (1968)
$CaMo_{1-x}W_xO_4$	NaCl	SC	1200–500	15–18	1–4	Kukui *et al.* (1967)
$CaMoO_4$	LiCl, $CaCl_2$	SC	1000–	0.7	2	Packter and Roy (1971)
$CaMoO_4$	Li_2SO_4	TSM	~835–960	0.2 mm/day	2	Parker and Brower (1967)
$Ca_2NaMg_2V_3O_{12}$	V_2O_5; NaV_3O_8	SC	1220–850	2	2–10	Havlicek *et al.* (1971)
$CaNb_2O_6$	$CaF_2/MgF_2/Nb_2O_5$	CR/SC	1315–915	3–5	$5 \times 5 \times 3$	Weaver and Li (1969)
$Ca_2Nb_2O_7$	$CaCl_2$	CR	1000, 1200	2 h	3	Brixner and Babcock (1968)
CaO	NaCl	CR	950	1–3 h	~1	Sakamoto and Setoguchi (1964)
Ca_2PO_4Cl	$CaCl_2$	CR	~1000	—	small	Brixner and Babcock (1968)
$Ca_5(PO_4)_3Cl$	$CaCl_2$	SC	1280–1060	2–4	3–4	Prener (1967)
$Ca_5(PO_4)_3F$	CaF_2	SC	1375–1220	2–4	~6	Prener (1967)
$CaRuO_3$	$CaCl_2$	SC	1260–800	2	2×1	Bouchard and Gillson (1972)
$CaSO_4$	LiCl, $CaCl_2$	SC	1000–	0.7	1	Packter and Roy (1971)
$CaSO_4$	Na_2SO_4	SC	1000–800	5	$11 \times 7 \times 2$	Wilke (1962, 1968)
β-$CaSiO_3$	NaCl	SC	1200–800	5	$6 \times 0.03 \times 0.03$	Setoguchi and Sakamoto (1967)
Ca_2SiO_4	$CaCl_2$	CR	1000, 1200	2 h	small	Brixner and Babcock (1968)
$CaSnO_3$	$CaCl_2$	EV	800–900	—	—	Smith and Welch (1960)
$CaSnB_2O_6$	CaB_2O_4	SC	1350–	5–50	small	Schultze *et al.* (1971)
$CaTiO_3$	$BaCl_2/CaCl_2$	SC	1150–	—	1	Kay and Bailey (1957)
$CaWO_4$	LiCl	SC	~700	—	1	Anikin (1958)
$CaWO_4$	Fluorides	SC	1200–700	—	$4 \times 3 \times 0.5$	Izvekov *et al.* (1968)
$CaWO_4$	LiCl	SC	600–800	—	small	Packter and Roy (1971, 1973)
$CaWO_4$	Na_2WO_4	TR(X)	~900	5×10^{-4}/h	—	Robertson and Cockayne (1966)

$CaWO_4$	$Na_2W_2O_7$	SC	1100–1250–700	2.5	10 × 5 × 5	Van Uitert and Soden (1960)
$CaWO_4$	Na_2O/WO_3	SC	1000–		small	Schultze *et al.* (1967)
Ca_6WO_9	$Na_2WO_4/K_2Cr_2O_7$	SC	1250–	9	5 × 1 × 1	Nassau and Mills (1962)
$Ca_2WO_5 \cdot CaCl_2$	$LiCl/CaCl_2$	SC	~1000–500	—	20 × 5	Barta *et al.* (1971)
$CaY_2Mg_2Ge_3O_{12}$	$CaO/GeO_2/B_2O_3$	TSSG/SC	1491–	0.4	115 g	Belruss *et al.* (1971)
$CaZrB_2O_6$	CaB_2O_4	SC	1150–	5–50	small	Schultze *et al.* (1971)
$CdCr_2S_4$	$CrCl_3$	VLRS	900–850	—	3–6	Von Neida and Shick (1969)
$CdCr_2Se_4$	$CdCl_2$	SC	—	2–5	0.8	Berger and Pinch (1967)
$CdCr_2Se_4$	$CrCl_3$(+ Pt)	VLRS	—	—	2	Eastman and Shafer (1967)
$CdCr_2Se_4$	$CdCl_2$	SC	—	2–5	1	Harbeke and Pinch (1966)
$CdCr_2Se_4$	$PbCl_2/CdCl_2$	SC	—	slow	3	Kuse (1970)
$CdCr_2Se_4$	$CdCl_2$	SC	900–500	2.4	3	Larson and Sleight (1968)
$CdCr_2S_{4-x}Se_x$	$CdCl_2$	—	—	—	1	Pickardt *et al.* (1970)
$CdCr_2Se_4$	$CrCl_2/CrSe$	VLS	850–1200	7	4	Shick and Von Neida (1971)
$CdCr_2Se_4$	$CrCl_3$(+ Pt)	VLRS	875–825	—	1–4	Von Neida and Shick (1969)
$CdCr_2Se_4$	$CrCl_3$(+ Pt)	VLRS	700	—	2–3	Von Philipsborn (1967, 1969)
$CdFe_2O_4$	PbO	SC	1300–	~5	<10	Remeika (1958b)
$CdGeP_2$	Sn	SC	–750	—	—	Spring-Thorpe and Pamplin (1968)
$CdIn_2Te_4$	In_2Te_3	TR	800	1–8 h	—	Mason and Cook (1961)
$Cd_2Nb_2O_7$	NaF	SC	1050–700	40	~2	Jona *et al.* (1955b)
$Cd_2Nb_2O_7$	CdF_2	SC	1225–700	2	10 × 10 × 1	Kestigian (1963)
Cd_2PbO_4	PbO	HPS/SC	750, 400	—	50 μm	Keester and White (1970)
CdS	$CdCl_2$	SC	1000–	5–100	1	Bibr *et al.* (1966)
CdS	$CdCl_2$	SC	900–	8–9	—	Bidnaya *et al.* (1962)
CdS	Ga, In, Sn, Tl	SC	1180–	38	5 × 0.2	Harsy (1967)
CdS	$CdCl_2/NaCl$	SC(X)	650–400	83	0.7 × 0.01 × 0.01	Haworth and Lake (1965)
CdS	Cd	SC	~940	2.5 mm/day	4 × 4 × 4	Hemmat and Weinstein (1967)
CdS	$CdCl_2$	SC	1200–700	—	small	Izvekov *et al.* (1968)
CdS	Bi, Cd, Sn	SC			~4	Rubenstein (1968)
CdS	Na_2S_x	CR/SC/EV	700–300	~25	15 × 1 × 1	Scheel (1972b, 1974)
CdS	Na_2S_x	CR/SC/EV	760–300	~25	4 × 4 × 0.1	Scheel (1972b, 1974)
CdS	$CdCl_2$	SC	800–600	5	4 × 1.5	Sysoev *et al.* (1966)
CdSe	Bi, Cd, Sn	SC/TR	—	—	~4	Rubenstein (1968)
CdSe	Se	TSM	1050–1100	—	20	Steininger (1968)
$CdSiAs_2$	Sn	SC	–750	—	—	Spring-Thorpe and Pamplin (1968)
$CdSiP_2$	Bi, Sn, Sb	SC	—	20	23 × 3.5	Borshchevskii *et al.* (1967)
$CdSiP_2$	Sn	SC	1200–	—	~10	Buehler and Wernick (1971)
$CdSiP_2$	Sn	SC	1200–600	4–16	30 (needles)	Mughal *et al.* (1969)
$CdSiP_2$	Sn	SC	–750	—	10	Spring-Thorpe and Pamplin (1968)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$CdSnB_2O_6$	CdB_2O_4	SC	1200–	5–50	small	Schultze *et al.* (1971)
$CdSnP_2$	Sn	SC	1200–	—	$\sim$10	Buehler and Wernick (1971)
$CdSnP_2$	Sn	SC	730–	2–3	$8 \times 2 \times 0.2$	Buehler *et al.* (1971)
$CdSnP_2$	Cd	SC	—	—	small	Loshakova *et al.* (1966)
$CdSnP_2$	Sn	SC	–750	—	—	Spring-Thorpe and Pamplin (1968)
CdTe	CdJ_2	CR	600	6 h	small	Kwestroo *et al.* (1969)
CdTe	Cd	Moving Boat	1025–970	$\sim$1 h	10	Lorenz (1962)
CdTe	Bi, Cd, Sn	SC/TR	—	—	$\sim$4	Rubenstein (1968)
(Cd, Hg)Te	Te	THM	$\sim$750	0.2–0.3 mm/h	$\sim$10	Ueda *et al.* (1972)
$CdTiO_3$	$NaCl/NaBO_2/Na_2CO_3$	SC	900–	fast	0.1	Kay and Miles (1957)
$CdWO_4$	LiCl	SC	$\sim$700	—	1	Anikin (1958)
$CdWO_4$	Na_2SO_4, Na_2O/WO_3	SC	1000–	—	small	Schultze *et al.* (1967)
$CdWO_4$	$Na_2W_2O_7$	SC	1100–1250–700	2.5	$10 \times 5 \times 5$	Van Uitert and Soden (1960)
$CdZrB_2O_6$	CdB_2O_4	SC	1040–	5–50	small	Schultze *et al.* (1971)
Ce-compounds see also R-						
$CeAlO_3$	KF	SC	1300–840	4–5	$\sim$0.05	Zonn (1965)
CeF_3	SrF_2, BaF_2 etc.	SC	$\sim$1000–900	—	—	Myakishev and Klokman (1966)
CeO_2	PbF_2	SC	1280–850	3	2.5	Baker *et al.* (1969)
CeO_2	$Li_2W_2O_7$	TR	1070–1100	ΔT25–30	2	Finch and Clark (1966)
CeO_2	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
CeO_2	$Na_2B_4O_7$	EV	—	—	1–2	Harari *et al.* (1967)
CeO_2	PbF_2/B_2O_3	SC	1325–	1	3	Linares (1967c)
CeO_2	Li_2O/MoO_3	TR(X)	970	ΔT 100	$10 \times 4 \times 4$	Linares (1967c)
CeO_2	PbF_2	EV	1200	17 days	$8 \times 4 \times 4$	Wanklyn (1969)
CeO_2	PbF_2/MgF_2	SC/EV	1200–800	1.2–3	3–5	Wanklyn (1969)
CeO_{2-x}	NaCl	CR	1000	50–80	small	Wilke (1964)
CeO_2	PbO/PbF_2	SC	1300–	3–4	$5 \times 4 \times 3$	Zonn and Joffe (1969)
$CoCr_2O_4$	Na_2O/WO_3	SC	1450–1000	3	—	Kunnmann *et al.* (1965)
$CoCr_2S_4$	$CrCl_3$(+ Pt)	VLRS	906–856	—	4	Shick and Von Neida (1969)
CoF_2	KCl	SC	1050–400	4	$20 \times 2 \times 2$	Garrard *et al.* (1974)
CoF_2	$PbCl_2$	SC	930–650	3	$\sim$5	Wanklyn (1969)
$CoFe_2O_4$	$PbO—B_2O_3$	SC	1320–950	1–2	$\sim$8	Bibr *et al.* (1966)
$CoFe_2O_4$	$NaFeO_2$	SC	1590–1350	6–10	$25 \times 8 \times 8$	Ferretti *et al.* (1963)
$CoFe_2O_4$	Na_2CO_3	LPE/EV	1000–1400	5–20 h	$10 \times 10 \times 0.05$	Gambino (1967)
$CoFe_2O_4$	$NaFeO_2$	SC	1350–	2	$25 \times 19 \times 19$	Kunnmann *et al.* (1962)

$CoFe_2O_4$	Na_2O/WO_3	SC	1340–	25	—	Kunnmann *et al.* (1965)
$CoFe_2O_4$	PbO	SC	1300–	~5	<10	Remeika (1958b)
$CoFe_2O_4$	$Na_2B_4O_7$	TR(X)	1200–1300	—	7	Timofeeva and Zalesskii (1959)
$Co_{2.2}Mn_{0.8}O_4$	$NaKSO_4$	CR	~1000	20 h	small	Petzold *et al.* (1971)
$Co_{1.9}Mn_{1.1}O_4$	$NaKSO_4$	CR	~1000	20 h	small	Petzold *et al.* (1971)
$CoMn_2O_4$	PbF_2	EV	1150	70 h	2 × 2 × 2	Tsushima (1966)
$CoNb_2O_6$	Na_2O/WO_3	SC	1260–700	3	10 × 1.5 × 1.5	Wanklyn (1972)
CoO	NaCl	SC	various	various	small	Packter (1968)
CoO	Na_2SO_4, KF	CR	1000	50–80	small	Wilke (1964)
CoS_2	Na_2S_x	SC/CR	700–300	25	2	Scheel (1974)
CoS_2	$PbCl_2$	SC	750–400	3.5	small	Wilke *et al.* (1967)
$CoSnB_2O_6$	CoB_2O_4	SC	1180–	5–50	small	Schultze *et al.* (1971)
$Co_{1+x}V_{2-x}O_4$	Na_2O/WO_3	EL	~900	40 mA/cm²	10	Rogers *et al.* (1966)
$CoWO_4$	Na_2SO_4, Na_2WO_4	SC	1000–	—	small	Schultze *et al.* (1967)
$CoWO_4$	Na_2O/WO_3	SC/CR	1250–600	1.5	4 × 4 × 4	Wanklyn (1972)
$CrBO_3$	B_2O_3	HPS	900, 1 h	60–65 kb	small	Chamberland (1967)
CrF_3	$PbCl_2/PbF_2$	SC	930–650	3	2	Wanklyn (1969)
Cr_2O_3	Li_2O/B_2O_3	SC	1300–1050	5–25	~10 × 8 × 0.2	Barks and Roy (1967)
CrO_2	PbO/PbF_2, Na_2CrO_4, K_2CrO_4, $K_2Cr_2O_7$	HPS	900, 1 h	60–65 kb	small	Chamberland (1967)
CrO_2	CrO_3	HPS/LPE	~425		2 μm layer	DeVries (1966)
Cr_2O_3	Bi_2O_3/V_2O_5	SC	1345–750	1.3	5	Garton *et al.* (1972b)
CrO_2	KOH	HPS	900	36 kb	small	Porta *et al.* (1972)
Cr_2O_3	$K_2B_4O_7/PbO$	EV	1220	3 weeks	8 × 8 × 0.3	Scheel (unpublished)
Cr_2O_3	Na_2S_x	SC/CR	1150–400	5	6 × 6 × 0.2	Scheel (1974)
Cr_2O_3	PbF_2/Bi_2O_3	EV	1300	150 h	5 × 5 × 1	Tsushima (1967)
Cr_2O_3	NaCl	CR/SC	1000	50–80	small	Wilke (1964)
$CsCoCrF_6$	$CsCl/CoCl_2$	—	850–950	—	3	Nouet *et al.* (1971)
$CsKCrF_6$	PbF_2	SC	1055–500	3.5	2 × 1	Garton and Wanklyn (1967a)
$CsZnCrF_6$	$CsCl/ZnCl_2$	—	800–	—	3	Nouet *et al.* (1971)
Cu	Tl	SC	1000–	0.2–10	small	Liaw and Faust (1971, 1972)
CuCl	KCl	THM	360	2	35 × 8	Kvapil and Perner (1971)
CuCl	$SrCl_2$, $PbCl_2$	TR	345–390	ΔT5–12	25 × 15 × 7	Parker and Pinnell (1970)
CuCl	KCl, $BaCl_2/SrCl_2$	THM	~330	0.2 mm/h	40 × 7	Perner (1969)
CuCl	KCl	TSSG	~400	0.1–0.3 mm/h	50 × 20 × 20	Wilcox and Corley (1967)
CuCl	KCl	SC	400–	2	10 × 10 × 5	Wilcox and Corley (1967)
$Cu_2Cr_2O_4$, $CuCr_2O_4$	Cu_2O	HPS	1000, 2 h	60–65 kb	small	Chamberland (1967)
$CuCr_2Se_{4-x}Br_x$	CuBr	SC	—	—	10	Sleight and Jarret (1969)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$CuFe_2O_4$	PbO/PbF_2	SC	950–500	11–13	2	Miyada *et al.* (1964)
$CuFe_2O_4$	PbO/B_2O_3	SC	980–500	5–10	3	Petrakovskii *et al.* (1969)
$CuGa_{1-x}In_xS_2$	In	SC	1150–300	4	$5 \times 5 \times 0.1$	Yamamoto and Miyauchi (1972)
$CuMoO_4$	MoO_3	SC	790–	2–10 mm/h	6	Nassau and Abrahams (1968)
CuO	KF	CR/SC	~1000	50–80	small	Wilke (1964)
CuP_2	Sn	SC	—	20	1 cm^2	Goryunova *et al.* (1968a)
CuS	Na_2S_x	SC/EV	~600–300	25	$2 \times 2 \times 0.1$	Scheel (1974)
$Cu_5V_2O_{10}$	KVO_3	SC	1000–500	10	—	Shannon and Calvo (1973)
Cu_3VS_4	Na_2S_x	SC/EV	~650–300	~25	1	Scheel (1974)
Dy-compounds see also R-						
$DyAlO_3$	PbO	EV	1260°	10 days	~2	Garton and Wanklyn (1967b)
$DyPO_4$	$Pb_2P_2O_7$	SC	1330–930	0.6–0.9	$15 \times 2 \times 2$	Smith and Wanklyn (1974)
$DyVO_4$	$Pb_2V_2O_7/NaVO_3/Na_2B_4O_7$	SC	1300–1040	2	$10 \times 5 \times 0.5$	Garton and Wanklyn (1969)
$DyVO_4$	PbO/V_2O_5	SC	1330–950	1	$20 \times 1.5 \times 1.5$	Garton *et al.* (1972b)
$DyVO_4$	$Pb_2V_2O_7$	SC	1330–930	0.6–0.9	$15 \times 2 \times 2$	Smith and Wanklyn (1974)
Er-compounds see also R-						
$Er_3Al_5O_{12}$(Tm)	$PbO/PbF_2/B_2O_3$	SC	1300–950	1	117 g	Van Uitert *et al.* (1965)
ErB_2	Er	CR	1750	20 min.	$1 \times 1 \times 0.01$	Castellano (1972)
$ErMnO_3$	$PbF_2/PbO/B_2O_3$	SC	1280–900	1	20 mm^2	Wanklyn (1972)
ErOF	$PbF_2/PbO/B_2O_3$	SC	1255–940	1	$20 \times 5 \times 1$	Wanklyn (1972)
Er_2SiO_5	$Li_2Mo_2O_7$	—	1100	—	—	Harris and Finch (1965)
Eu-compounds see also R-						
EuB_6	B_2O_3(?)	VLS	~1800	—	small	Rea and Kostiner (1971)
$EuFeO_3$	PbO	SC	1250–1000	6	$5 \times 5 \times 1$	Drofenik *et al.* (1973)
$Eu_3Fe_5O_{12}$	PbO/B_2O_3	SC	1280–900	—	60 mg	Schieber (1967)
$Eu_3Ga_5O_{12}$	PbF_2/PbO	SC	1240–900	—	1.8 g	Schieber (1964)
$Eu_3Ga_5O_{12}$	PbF_2/PbO	SC	1250–	—	—	Schieber and Holmes (1965)
$Eu_3Ga_5O_{12}$	PbO/B_2O_3; PbO/PbF_2	SC	1280–900	—	0.4 g	Schieber (1967)
EuO	Eu(+Ta)	SC	2000–1550	25	~10	Guerci and Shafer (1966)
EuO	Eu	SC	2000–1400	7–100	~10	Shafer *et al.* (1972)
EuO	Eu	SC	2200–	5–50	60 g	Reed and Fahey (1971)
Eu_2O_3	PbO	SC	1250–1100	6	2×0.2	Drofenik *et al.* (1974)
EuS	Eu	SC	2300–	10–20	<60 g	Reed and Fahey (1971)

EuSe	Eu	SC	2300–	10–20	<60 g	Reed and Fahey (1971)
EuTe	Eu	SC	2300–	10–20	<60 g	Reed and Fahey (1971)
$FeBO_3$	Bi_2O_3/MoO_3, $PbMoO_4$	SC	1000–750	1–2	5	Chadwick (1972)
$FeBO_3$	B_2O_3	CR	670–860	—	small	Joubert *et al.* (1968)
$FeBO_3$	$PbO/PbF_2/B_2O_3$	SC	1100–700	9	5 × 5 × 2	Lecraw *et al.* (1969)
$FeBO_3$	Bi_2O_3/B_2O_3	SC	850–600	0.5	8	Makram *et al.* (1972)
$(Fe_{0.9}Ga_{0.1})BO_3$	Bi_2O_3/B_2O_3	SC	1145–835	1.1	—	Bernal *et al.* (1963)
$FeCr_2S_4$	$CrCl_3$(+Pt)	VLRS	906–865	—	4	Shick and Von Neida (1969)
FeF_2	KCl	SC/EV	980–500	5	10 × 1 × 1	Garrard *et al.* (1974)
$FeNbO_4$	Na_2O/WO_3	SC	1250–600	1.5	3 × 2 × 2	Wanklyn (1972)
Fe_2O_3	Li_2O/B_2O_3	SC	1200–1050	2	1.5	Anderson and Schieber (1963)
Fe_2O_3	$Na_2B_4O_7$, $K_2B_4O_7$	SC	1200–880	5–80	10, 300 mg	Barks and Roy (1967)
Fe_2O_3	$Na_2B_4O_7$	SC	1100–700	45	6 × 6	Barks *et al.* (1964)
Fe_2O_3	$Na_2B_4O_7$	SC	1260–1040	0.5–15	6 × 6 × 0.4	Chase and Morse (1973)
Fe_2O_3	Bi_2O_3	SC	1320–900	0.5–2	20	Curry *et al.* (1965)
Fe_2O_3	Bi_2O_3/B_2O_3	SC	1200–500	5	—	Flanders and Remeika (1965)
Fe_2O_3	PbO/B_2O_3	SC	1300–	10	—	Flanders and Remeika (1965)
Fe_2O_3	Bi_2O_3/V_2O_5	SC	1300–900	5	7	Garton *et al.* (1972b)
Fe_2O_3	PbO/V_2O_5	SC	1345–750	1.3	30	Garton *et al.* (1972b)
Fe_2O_3	$Na_2B_4O_7$, Bi_2O_3/B_2O_3	SC	1250–800	1	7 × 3, 3 g	Nielsen (1969)
Fe_2O_3	$Bi_2O_3/V_2O_5/Li_2B_4O_7$	SC	1220–1000	2	6 × 5 × 2	Scheel (unpublished)
Fe_2O_3	Li_2O/B_2O_3	SC	1150–800	—	5 mg	Schieber (1964)
Fe_2O_3	$PbO/Bi_2O_3/B_2O_3$	SC	1300–800	2–3	15 × 15 × 3	Schieber (1966)
Fe_2O_3	$Na_2B_4O_7/CuO$	SC	1250–800	1.5	80 mg	Tasaki and Iida (1963)
Fe_2O_3	$Na_2B_4O_7$	SC	1300–	10	3 × 3 × 0.5	Vichr (1966)
Fe_2O_3	$Pb_2V_2O_7$	SC	—	—	25	Wanklyn (1970)
Fe_2O_3	$Pb_2P_2O_7/MgO$	SC	1310–900	4.3	5	Wickham (1962)
Fe_2O_3	Na_2SO_4, NaCl, LiCl, KF	CR/SC	~1000	50–80	~1	Wilke (1964)
Fe_2O_3	$Na_2SO_4/NaCl$	EV?	1200	—	4	Wilke (1968)
Fe_3O_4	$Na_2B_4O_7$	SC/HPS	1300–1000	2	2	Vichr and Makram (1969)
FeS	Fe	SC	~1150–	15–20	20 × 10	Takahashi *et al.* (1973)
FeS_2	Na_2S_x	SC/EV	500–300	25	3 × 3 × 2	Scheel (1974)
FeS_2	$FeCl_3$, $FeBr_3$	CR/TR	750	—	4	Wilke (1968)
FeS_2	$PbCl_2$	SC	750–400	3.5	~3	Wilke *et al.* (1967)
Fe_2TiO_4	BaO/B_2O_3	SC	1200–900	3	4	Hauptman *et al.* (1973)
Fe_2TiO_5	PbO/V_2O_5	SC	1330–950	1	25 × 8	Garton *et al.* (1972b)
Fe_2TiO_5	$Pb_2V_2O_7$	SC	—	—	20 × 3 × 1	Wanklyn (1970)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$FeVO_4$	V_2O_5	SC	1130–700	10	4 × 1.5 × 1.5	Levinson and Wanklyn (1971)
$FeWO_4$	$Na_2W_2O_7$	SC	1000–	—	small	Schultze *et al.* (1967)
$Ga_xIn_{1-x}As$	Ga/In	LPE/SC	$\gtrsim$750	—	—	Antypas (1970)
$GaAs_{1-x}P_x$	Ga	SC	1100–600	3–10	~1	Badzian *et al.* (1969)
GaAs	Ga, Au, Pd, Pt	VLS(X)	980–830	4 h	whisker	Barns and Ellis (1965)
$GaAs_{1-x}P_x$	Ga	TSSG	1215	1 mm/h	36 × 21	Cerrina *et al.* (1973)
GaAs	Ga	SC	1050–	1.3	small	Faust and John (1964)
GaAs	Ga	TR	500–900	ΔT25–200	—	Lyons (1965)
GaAs	Ga	LPE/SC	800–	45–300	—	Miki and Otsubo (1971)
GaAs	Ga	TSM/TR(X)	850	40–80°/mm	—	Mlavsky and Weinstein (1963)
GaAs(Si, Ge)	Ga	LPE/SC	800–400	1800–2400	15–30 μm	Moriizumi and Takahashi (1969)
GaAs	Ga	VLS	550–680		~40 μm	Nickl and Just (1971)
$GaAs_xP_{1-x}$	Ga	LPE/SC	~1100–	120–300	—	Panish (1969)
GaAs	Ga	TR(X)	800	4–5 days	~20 × 2	Panish *et al.* (1966)
GaAs	Ga	TR	900–1000	—	—	Queisser and Panish (1967)
GaAs	Ga	LPE/SC	900–875	100	~15 μm layer	Rosztoczy *et al.* (1970)
GaAs	Ga	LPE/SC	~840	~35	1 mm	Rupprecht (1966)
$GaAs_xP_{1-x}$	Ga	LPE/SC	955–860	—	2 × 0.02	Shih (1970)
$Ga_xAl_{1-x}As$	Ga	LPE/SC	955–860	24	60–80 μm	Shih and Blum (1971)
GaAs(Si)	Ga	LPE	700	1	—	Spitzer and Panish (1969)
$Ga_xIn_{1-x}As$	In/Ga	LPE/SC	700–400	60 or 900	—	Takahashi *et al.* (1971)
GaAs	Ga	SC	—	—	small	Wolff *et al.* (1954)
$Ga_xAl_{1-x}As$	Ga	LPE/SC	~910–	30	~200 μm	Woodall *et al.* (1969)
$GaFeO_3$	PbO/V_2O_5	SC	1300–900	5	10 × 3 × 3	Garton *et al.* (1972b)
$GaFeO_3$	Bi_2O_3/BiF_3	SC	1000–600	1	12 × 6 × 6	Linares (1962c)
$Ga_{2-x}Fe_xO_3$	Bi_2O_3/B_2O_3	SC	1125–500	4–7	10	Remeika (1960)
$Ga_{2-x}Fe_xO_3$	$PbO/Bi_2O_3/B_2O_3$	SC	1300–800	2–3	—	Schieber (1966)
$Ga_{2-x}Fe_xO_3$	Bi_2O_3/B_2O_3	SC	1300–800	2–3	—	Schieber (1966)
β-Ga_2O_3	PbF_2/Bi_2O_3	SC	1250–1000	4	10 × 5 × 3	Chase and Osmer (1967)
β-Ga_2O_3	Bi_2O_3/V_2O_5	SC	1300–900	5	6 × 2 × 1	Garton *et al.* (1972b)
β-Ga_2O_3	PbF_2	SC	1200–900	3	10	Hart and White, see White (1966)
β-Ga_2O_3	PbF_2	SC	1225–872	4	16, 0.2 g	Katz and Roy (1966)
β-Ga_2O_3	Ga	SC			small	Lorenz *et al.* (1967)
β-Ga_2O_3	PbO/B_2O_3	SC	1300–915	2	5	Remeika (1963)

α-Ga_2O_3	NaOH	HPS	1000	44 kb	—	Remeika and Marezio (1966)
β-Ga_2O_3	MoO_3	SC	1050–70	—	30 mg	Schieber (1964)
β-Ga_2O_3	PbO/PbF_2	SC	1390–900	—	0.1 g	Schieber (1964)
β-Ga_2O_3	PbF_2, PbO/PbF_2	EV	1200–	1	3–4	Timofeeva (1968)
β-Ga_2O_3	Na_2O/WO_3	SC	1350–900	10	2–4	Voronkova *et al.* (1968a)
GaP	Ga	TR	1140–820	—	8 × 5 × 2	Besselere and LeDuc (1968)
$Ga_xIn_{1-x}P$	In/Ga	LPE	900–1168	ΔT5–20	—	Blom and Plaskett (1971)
GaP	Ga	TSM	1100–100	<6 day	25 × 9 × 9	Broder and Wolff (1963)
GaP	$NaPO_3$, NaF, Ga_2O_3	EL	800	50 mA/cm²	~10 μm/h	Cuomo and Gambino (1968)
GaP	Ga	VLS	800–950	20 mm/h	20 × 2	Ellis *et al.* (1968)
GaP	Ga	SC	1050–	0.7	small	Faust and John (1964)
GaP	Sn	SC	1050–	0.5	small	Faust and John (1964)
$Ga_xIn_{1-x}P$	In/Ga	LPE/SC	875–800	120–180	—	Hakki (1971)
GaP	Cu, Zn	VLS(X)	950	22 days	whiskers	Holonyak *et al.* (1965)
GaP	GaJ_3	CR	250–500	12 h	small	Kwestroo *et al.* (1969)
$Ga_{1-x}In_xP$	In, Sn	TR	1000	ΔT~10–20	5	Macksey *et al.* (1972)
$Ga_xAl_{1-x}P$	Ga	SC	1150–900	10	"few"	Merz and Lynch (1967)
$Ga_xAl_{1-x}P$	Ga	TR	1080	50–70 h	—	Merz and Lynch (1967)
$Ga_xIn_{1-x}P$	Ga/In	SC	1150–	100	—	Okuno *et al.* (1971)
GaP	Ga	VLRS	1200–1000	—	—	Plaskett (1969)
GaP	Ga	TSM	1160	4/day	34 × 14 × 14	Plaskett *et al.* (1967)
GaP	Ga	VLRS	1000	1 mm/day	~20 × 20	Poiblaud and Jacob (1973)
GaP	Ga	TR	~1050–800	10 μm/h	1 cm³	Rodot *et al.* (1968)
GaP(Zn, O)	Ga	LPE/SC	1060–600	30–1080	—	Saul and Hackett (1970)
GaP	Ga	SC	1140–800	570	—	Shiraki (1969)
GaP(N, Zr)	Ga	SC	1200–800	40	—	Thomas and Lynch (1967)
GaP	Ga	SC	1275/1000–750	3–5	~10	Thomas *et al.* (1964)
GaP(Te)	Ga	SC	1200–	5–10	5 × 5 × 0.5	Toyama *et al.* (1969)
GaP	Sn	SC	1085–784		1 cm³	Trumbore *et al.* (1964)
GaP	Bi	SC	1200–400		5 × 5 × 0.2	Ugai and Gukov (1965)
GaP	Ga	TSSG	1430–1200	7–13 mm/h	25 g	Von Neida *et al.* (1972)
GaP	Ga	TSM	850	ΔT~200	10 × 10 × 2	Weinstein and Mlavsky (1964)
GaP	Ga	TR(X)	850	0.5/h	10 × 10 × 2	Weinstein and Mlavsky (1964)
GaP	Ga	SC	—	—	—	Wolff *et al.* (1954)
GaS	Ga	SC	~1100–1200	~20	5 × 5 × 0.2	Harsy (1968)
$Ga_xIn_{1-x}Sb$	In or Pb	TSM	420	—	9 thick	Hamaker and White (1969)
GaSb	Ga, Pb, Sb, Sn	SC	650–	0.7	small	Faust and John (1964)
$Ga_xIn_{1-x}Sb$	Ga, In, Sb	LPE	~400	10	200 μm	Plaskett and Woods (1971)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
GaSb	Sb	TR	~650	1.6, 7.2	—	Reid *et al.* (1966)
GaSb	Ga	SC	—	—	—	Wolff *et al.* (1954)
Ga_2Se_3	Ga	SC	~1200–	~20	~5 × 5 × 0.2	Harsy (1968)
Gd-compounds see also	R-					
$GdAlO_3$	Bi_2O_3/B_2O_3	EV	1200	17 days	4 mm³	Airtron
$GdAlO_3$(Nd)	$PbO/PbF_2/B_2O_3$	SC/ACRT	1300–950	0.3	20 × 10 × 10	Courtens and Scheel (1974)
$GdAlO_3$	PbO/PbF_2	EV	1200	17 days	4 × 4 × 3	Garton and Wanklyn (1967b)
$GdAlO_3$	Bi_2O_3/B_2O_3	SC	1340–840	0.7–1.7	~5 × 4 × 4	Garton and Wanklyn (1967b)
$GdAlO_3$	PbO/PbF_2	SC	1260–1000	3	6 × 6 × 3	Linares (1962c)
$GdAlO_3$	Bi_2O_3/B_2O_3	SC	1340–840	1.7	—	Remeika (1956)
$GdAlO_3$	$PbO/PbF_2/B_2O_3$	SC/ACRT	1300–900	0.3–0.6	35 × 30 × 25 (210 g)	Scheel and Schulz-DuBois (1971) Scheel (1972a)
$Gd_3Al_5O_{12}$	PbO/PbF_2	SC	1245–	0.6	7.3 g	Manabe and Egashira (1971)
$Gd_3Al_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.3	30 × 20 × 10	Scheel (unpublished)
$GdCo_5$	Al, Ga	SC	1000–		10	Gambino and Ruf (1971)
$Gd_3Fe_5O_{12}$	PbO/B_2O_3	SC	~1300–	5	—	Giess (1962a)
$Gd_3Fe_5O_{12}$	PbO/B_2O_3	SC	1300–925	2	10	Remeika (1963)
$Gd_3Fe_5O_{12}$	Fe_2O_3	SC	1520–1440	—	~1	Smith *et al.* (1959)
$GdGaO_3$	see $RGaO_3$					
$Cd_3Ga_5O_{12}$	PbO/B_2O_3	SC	1300–1000	2	7.5	Remeika (1963)
$Gd_3Ga_5O_{12}$	PbF_2/PbO	SC	1240–900	—	1.2 g	Schieber (1964)
Gd_2GeMoO_8	PbO/MoO_3	SC	1290–900	2–3	2	Swithenby *et al.* (1974)
Gd_2GeWO_8	PbO/WO_3	SC	1280–900	4	2	Swithenby *et al.* (1974)
$GdMnO_3$	PbO/PbF_2	SC	1260–950	2	2 × 2 × 1	Wanklyn (1972)
$GdMnO_3$	PbF_2	SC	1290–1180	1	3 × 3 × 2	Wanklyn (1972)
$Gd_2(MoO_4)_3$	MoO_3	TSSG/SC	1184–	0.1	12 g	Belruss *et al.* (1971)
$GdPO_4$	$Pb_2P_2O_7$	SC	1370–950	1	7 × 1.5 × 0.6	Wanklyn (1972)
$Gd_2Si_2O_7$	Bi_2O_3	—	—	—	2 × 1 × 0.5	Bondar *et al.* (1971)
$GdVO_4$	see also RVO_4					
$GdVO_4$	$Pb_2V_2O_7/NaVO_3/Na_2B_4O_7$	SC	1300–1000	2	6 × 1.9 × 1.6	Garton and Wanklyn (1969)
$GdVO_4$	Bi_2O_3/V_2O_5	SC	1320–950	1	7.5 × 2 × 2	Garton *et al.* (1972b)
$GdVO_4$	$Pb_2V_2O_7$	SC	1150–950	2 (Oscill.)	7 × 3 × 0.5	Hintzmann and Müller-Vogt (1969)
$GdVO_4$	$Pb_2V_2O_7$	SC	1250–950	0.3	7 × 3 × 2	Scheel (unpublished)
Ge	several metals	SC	0.15, 0.7, 1.5	—	small	Faust *et al.* (1968)
Ge	Sn	LPE/SC	600–400	600–900	—	Donnally and Milnes (1966)

Ge	Al, Cd, Ga, Sb, Sn	SC	600–700–	0.15–0.7	small	Faust and John (1964)
Ge	Bi, Bi/Sn	LPE	400–200	20–40	$\sim$7 μm/h	Kijima *et al.* (1971)
Ge	In, In/Ga	LPE	900–700	20–40	—	Kijima *et al.* (1971)
Ge	Sn	TR(X)	$\sim$600	$\Delta T\sim 50$	3 μm/min.	Laugier *et al.* (1967)
Ge	Pb/Sn	TR(X)	$\sim$650	$\Delta T\sim 50$	0.2 layer	Laugier *et al.* (1967)
Ge(As)	As	TSSG/EV	—	18–19 h	34 g	Trumbore and Porbansky (1960)
GeO_2	Li_2O/MoO_3 or Li_2O/WO_3	SC	1100–950	$\lesssim 1$	$3\times 2\times 2$	Finch and Clark (1968)
GeO_2	Li_2O, Na_2O	TSSG/SC	1050–975	2	10×3	Goodrum (1970)
GeO_2	Li_2O/MoO_3	SC	1100–700	3	1–2	Hart and White, see White (1966)
GeO_2	Na_2O	TSSG	$\sim$1025	0.04	$5\times 1\times 1$	Swets (1971)
GeO_2	Li_2O/WO_3	TSSG	1050–950	0.5–1	$\sim 10\times 3\times 2$	Goodrum (1972)
HfB_2	Fe	SC	1700–400	5	$\sim$3	Nakano *et al.* (1971)
HfO_2	PbF_2	SC	1250–1000	4	$3\times 2\times 1$	Chase and Osmer (1966b)
HfO_2	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
HfO_2	BiF_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
HfO_2	$Na_2B_4O_7$	EV	1250–690	2–4	—	Harari *et al.* (1967)
HfO_2	Bi_2O_3/PbF_2	SC	1300–950	3	$5\times 5\times 1.5$	Zonn and Joffe (1969)
HgS	Hg	SC	630–450	10	6×0.2	Cruceanu and Nistor (1969)
HgS	Na_2S_4	SC	350–230	1.5–6.5	5	Garner and White (1970)
Hg(Se, Te)	Hg	SC	650–	6	1–2	Cruceanu and Nistor (1969)
HgSe	Hg	SC	650–	$\sim$10	$\sim$6	Nistor and Cruceanu (1969)
(Hg, Zn)Te	Hg	SC	650–	6	1–2	Cruceanu and Nistor (1969)
HgTe	Hg, Te	SC	—	0.5	small	Dziuba (1971)
HgTe	Hg	SC	650–	$\sim$6	$\sim$3	Nistor and Cruceanu (1969)
(Hg, Cd)Te	Te	THM	$\sim$750	0.2–0.3 mm/h	$\sim$10	Ueda *et al.* (1972)
Ho-compounds see also R-						
$HoFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1275–900	4	$40\times 15\times 3$	Feigelson (1971)
$HoFeO_3$	PbO/B_2O_3	SC	1300–850	2	$15\times 5\times 5$	Remeika (1963)
$HoFeO_3$(Cr)	$PbO/PbF_2/B_2O_3$	SC	1300–900	1	0.5 cm^3	Van Uitert *et al.* (1970)
$HoPO_4$	$Pb_2P_2O_7$	SC	1370–950	1	$20\times 2\times 2$	Wanklyn (1972)
InAs	In	SC	800–	0.7	small	Faust and John (1964)
InAs	In/Cd	SC	—	10–100	$7\times 5\times 1$	Koppel (1966)
$InAs_xSb_{1-x}$	In	LPE	720–520	ΔT1.5–14	0.17–15 μm/min.	Stringfellow and Greene (1971)
InAs	In	LPE	480–300	1200	20 μm	Tamura *et al.* (1971)
InAs	In	SC	—	—	—	Wolff *et al.* (1954)
In_2O_3	PbO/B_2O_3	SC	1250–900	2.3–10	—	Chase (1968)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
In_2O_3	PbO/B_2O_3	SC	1250–1000	4–6	—	Chase and Wilcox (1967)
$In_2O_3(Mg)$	PbO/B_2O_3	SC	1250–900	2.3–4	$2 \times 2 \times 1$	Chase and Tippins (1967)
In_2O_3	PbO/B_2O_3	SC	1250–900	2.3–4	$5 \times 5 \times 3$	Chase and Tippins (1967)
In_2O_3	PbO/B_2O_3	—	—	—	$2 \times 2 \times 0.5$	DeWit (1972)
In_2O_3	PbF_2	SC	1200–900	3	7	Hart and White, see White (1966)
In_2O_3	PbO/B_2O_3	SC	1200–500	10	$10 \times 10 \times 1$	Remeika and Spencer (1964)
InP	In	LPE/SC	~600–	60	~20 μm layer	Astles *et al.* (1973)
InP	In	SC	970–	0.7	small	Faust and John (1964)
InP	In	SC	—	10	~5	Röder *et al.* (1970)
InP	In	SC	—	—	—	Wolff *et al.* (1954)
InS	In	SC	~1200–	~20	$5 \times 5 \times 0.2$	Harsy (1968)
In_2S_3	As_2S_3	SC	850–300	2	$20 \times 20 \times 1$	Diehl and Nitsche (1973)
InSb	In, In + Zn	SC	480	0.7	small	Faust and John (1964)
InSb	Hg	SC	325	0.7	small	Faust and John (1964)
InSb	In	SC	—	—	—	Wolff *et al.* (1954)
K_3AlF_6	KCl	SC	1055–500	3.5	$2 \times 2 \times 1$	Garton and Wanklyn (1967a)
$K(Na)Ba_2Nb_5O_{15}$	K_2CO_3/Na_2CO_3	SC	1500–1300	2	~3	Giess *et al.* (1969)
KCl	AgCl	TSM	400–500	820 Å/sec	—	Rashkovich (1969)
$KCoF_3$	KCl	SC	1050–400	4	$10 \times 10 \times 10$	Garrard *et al.* (1974)
$KCoF_3$	KCl	SC	1100–650	3.5	small	Wanklyn (1969)
K_3CrF_6	PbF_2	SC	1055–500	3.5	~2	Garton and Wanklyn (1967a)
K_3CrF_6	KCl	SC	1140–880	0.7	~2	Garton and Wanklyn (1967a)
$KCrS_2$	K_2S_x	SC/EV	~1000–300	~25	$2 \times 2 \times 0.1$	Scheel (1974)
KEr_3F_{10}	MnF_2	TSSG/SC		0.5–2	10 g	Gabbe and Pierce (1974)
$KFeF_3$	KCl	SC/EV	850–510	6	6	Garrard *et al.* (1974)
KFe_5O_8	KF	CR/SC	1000–746	10	$2 \times 1 \times 0.05$	Roth and Romanczuk (1969)
$KFe_{12}O_{19}$	KF	SC	1200–900	3	5	Hart and White, see White (1966)
$KFeS_2$	Na_2S_x/K_2S_x	SC/EV	~600–300	25	$10 \times 0.2 \times 0.2$	Scheel (1974)
$K_2Ga_{12}O_{19}$	KF	SC	1200–900	3	1	Hart and White, see White (1966)
$K_2Ge_4O_9$	KF/GeO_2	CR/SC	1100–800	3–5	—	Weaver and Li (1969)
$K_3Li_2Ta_xNb_{5-x}O_{15}$	K_2CO_3/Li_2CO_3	TSSG/SC	1250–1000	1	$12 \times 6 \times 5$	Fukuda *et al.* (1970)
K_2MgF_4	KF	TSSG/SC	845–798	0.8 mm/h	8	Neuhaus *et al.* (1967)
$KMg_2LiSi_4O_{12}F_2$	PbO/B_2O_3	SC	1050–800	—	—	Moore (1961)
$K_{0.3}MoO_3$	K_2MoO_4/MoO_3	EL	550	20 mA	$8 \times 4 \times 1$	Perloff *et al.* (1969)

$K_{0.27}MoO_3$	K_2O/MoO_3	EL	575	—	—	Wold *et al.* (1964)
K_2NaAlF_6	KCl/NaCl	SC	985–700	3.5	~2	Garton and Wanklyn (1967a)
K_2NaCrF_6	PbF_2	SC	975–600	3.5	~2	Garton and Wanklyn (1967a)
K_2NaCrF_6	KCl/NaCl	SC	975–600	3.5	~2	Garton and Wanklyn (1967a)
K_2NaGaF_6	PbF_2	SC	1060–550	3.5	1.5 × 1.5 × 1	Garton and Wanklyn (1967a)
(K, Na)TaO_3	K_2O	TSSG/SC	~1345–	0.5	17 g	Belruss *et al.* (1971)
$KNbO_3$	K_2CO_3	SC	~1045–	0.5–1	30 × 30 × 15	Fukuda and Uematsu (1972)
$KNbO_3$	K_2CO_3	TSSG/SC	1085–	0.5	2 cm^3	Hurst and Linz (1971)
$KNbO_3$	KF, KCl	SC	—	—	10	Matthias and Remeika (1951)
$KNbO_3$	K_2CO_3	SC(X)	1070–1046	3	12–15 g	Miller (1958)
$KNbO_3$	K_2Co_3	SC(X)	1050–	1–3 mm/h	17 × 15 × 15	Timofeeva and Bychkov (1966)
$K_4Nb_6O_{17}$	K_2CO_3/Li_2CO_3	SC	1250–	5	10 × 10 × 0.25	Hirano and Fukuda (1968)
$KNiF_3$	KCl	SC	1100–700	2	8	Wanklyn (1969)
$K_3Pb_3Nb_5ZnO_{18}$	PbO	SC	1200–800	5	5	Kojima and Nomura (1973)
K(Ta, Nb)O_3	K_2O	TSSG/SC	~1265–	0.5	20 g	Belruss *et al.* (1971)
$KTa_{0.35}Nb_{0.65}O_3$	K_2CO_3	—	1260	—	~7	Salnikov and Shelarkin (1967)
K(Ta, Nb)O_3	K_2O/K_2CO_3	TSSG/SC	~1400–1000	—	25, 1300 g	Bonner *et al.* (1967)
K(Ta, Nb)O_3	K_2O/K_2CO_3	TSSG/TR	—	—	40 × 40 × 30	Gentile and Andres (1967)
K(Ta, Nb)O_3	K_2O/K_2CO_3	TSSG/TR	~1200	2–4 mm/day	12 × 8 × 5	Whipps (1972)
$KTaO_3$	K_2O	TSSG/SC	1346–	0.5	33 g	Belruss *et al.* (1971)
$KTaO_3$	K_2CO_3/Li_2CO_3	SC	1400–1000	2	280 g	Bonner *et al.* (1967)
$KTaO_3$	K_2CO_3	SC	1250–600	10	3 × 2 × 1	Demurov and Venevtsev (1971)
$K_2Ta_4O_{11}$	MoO_3	EV	950–1400	—	—	Roth *et al.* (1973)
$K_2Ti_6O_{13}$	KCl/KF	SC	1000–850	6–18	1.5 × 1 μm fibers	Ovechkin *et al.* (1968)
KV_2F_6	KCl	SC	980–500	5	6	Garrard *et al.* (1974)
La-compounds see also R-						
$LaAlO_3$(^{17}O)	PbO/PbF_2	EV	1280	6 days	3	Garton *et al.* (1972a)
$LaAlO_3$	$PbO/PbF_2/B_2O_3/V_2O_5$	SC	1300–980	0.5	11 × 9 × 6	Kjems *et al.* (1973)
$LaAlO_3$(Mn)	$Pb_7O_2F_{10}$	EV	1200	100 h	3 × 3 × 0.4	Tsushima (1966)
$LaAlO_3$	PbO/PbF_2	SC	1200–800	1.5–2	10	Zonn and Joffe (1968)
LaB_4	La	SC	1700–1250	16	5–8	Deacon and Hiscocks (1971)
LaB_6	B_2O_3(?)	VLS	~1800	—	0.05	Rea and Kostiner (1971)
$LaCoO_3$	PbO/PbF_2	EV	1250	6 days	2 × 1 × 1	Wanklyn (1972)
$LaCrO_3$	PbF_2	EV	1380	50 h	3 × 3 × 3	Tsushima (1967)
$LaFeO_3$	PbO/B_2O_3	SC	1300–850	2	5 × 1 × 1	Remeika (1963)
$LaNbO_3$	PbF_2	SC	1200–900	3	5	Hart and White, see White (1966)
La(Y)Nb(Ta)O_4	KF	SC/EV	1250–850	4.2	—	Wolten and Chase (1967)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
La_2O_3	NaCl	CR/SC	~1000	50-80	small	Wilke (1964)
LaOCl	$LaCl_3$	CR	1050	2 h	3 × 3 plates	Wanklyn (1972)
LaOCl	$MgSO_4 + LaCl_3$	CR	1050	2 h	3 × 3 plates	Wanklyn (1972)
$La_{1-x}Pb_xMnO_3$	PbO/PbF_2	—	—	—	—	Morrish (1970)
$La_{0.7}Pb_{0.3}MnO_3$	PbF_2	—	—	—	~3	Nielsen and Dearborn (1960)
LaS_{2-x}	Na_2S_x	SC/EV		~25	~1	Scheel (1974)
La_2SiO_5	KF	SC	1300-850	1-2.5	4 × 3 × 2	Bondar *et al.* (1968)
$La_2Ti_2O_7$	$PbF_2/PbO/B_2O_3$	EV	1230	3 days	4 × 5 plate	Wanklyn (1972)
$LiAlO_2$	PbO/B_2O_3	SC/EV	1300-840	2.5-10	6	Schwarzer and Neels (1971)
$LiAlO_2$	PbO/B_2O_3	SC/EV(X)	1140-	2.5	~6	Schwarzer and Neels (1971)
$LiAl_5O_8$	PbF_2/PbO	SC	1300-800	7-10	2-3	Anselm *et al.* (1966)
γ-$LiBO_2$	LiCl	SC	950-	44 kb	small	Marezio and Remeika (1966)
$LiBaF_3$	LiF	TSSG/SC	821-770	35 h	30 × 30 × 30	Neuhaus *et al.* (1967)
LiCuGe	LiCl/LiF	—	—	—	—	Oleksiv and Kripyakevich (1967)
Li_2CuGe	LiCl/LiF	—	—	—	—	Oleksiv and Kripyakevich (1967)
$LiFe_5O_8$	Li_2O/B_2O_3	SC	1100-750	2	1.5	Anderson and Schieber (1963)
$LiFeO_2$	Li_2O/B_2O_3	SC	1090-800	2	1.5	Anderson and Schieber (1963)
$LiFe_5O_8$	$Li_2O/B_2O_3/PbO$	SC	1000-600	4	4 × 4 × 4	Arai and Tsuya (1972)
$LiFe_5O_8$	PbO/PbF_2	SC	1300-	1	—	Folen (1962)
$LiFe_5O_8$	Li_2CO_3	LPE/EV	1000-1400	5-20 h	10 × 10 × 0.05	Gambino (1967)
$LiFe_5O_8$	PbO/B_2O_3	SC	1060-600	0.8	10 × 10 × 10	Pointon and Robertson (1967)
$LiFe_{5-x}Ga_xO_8$	PbO/B_2O_3	SC	1050-300	4	10	Petrakovskii *et al.* (1969)
$LiFe_5O_8$	PbO/B_2O_3	SC	800-300	2	—	Remeika and Comstock (1964)
$LiFeO_2$	Li_2O/B_2O_3	SC	1050-700	—	2 mg	Schieber (1964)
$LiFe_5O_8$	$LiF/Li_2O/B_2O_3$	SC	1050-700	—	5 mg	Schieber (1964)
$LiFe_5O_8$(Zn, Co)	PbO/B_2O_3	SC	1150-400	6-2	12	Seleznev *et al.* (1971)
$LiFe_5O_8$	PbO/B_2O_3	SC	1060-	—	20 g	Spencer *et al.* (1968)
$LiFe_5O_8$	Li_2SO_4/Na_2SO_4	CR	800	1 h	small	Wickham (1962)
$LiFeO_2$	$CaSO_4$	CR	—	—	small	Wickham (1962)
$LiGaO_2$	PbO/B_2O_3	SC	1300-500	5	—	Remeika and Ballman (1964)
$LiGaO_2$	PbO/B_2O_3	SC/EV	1300-840	2.5-10	12	Schwarzer and Neels (1971)
$LiGaO_2$	PbO/B_2O_3	SC(X)	1140-	2.5	1.5 g	Schwarzer and Neels (1971)
(Li, Ni)O	Na_2SO_4	—	—	—	small	Wilke *et al.* (1965)
$LiRF_4$	LiF	SC/TSSG	800-900-	0.5-2	20 × 20 × 100 (120 g)	Gabbe and Harmer (1968)

Li_xWO_3	Li_2O/WO_3	EL	750–900	15–50 mA	—	Shanks *et al.* (1962)
$LiRMo_2O_8$	$Li_2Mo_2O_7$	LPE	1050	—	3 μm	Clark *et al.* (1972)
Lu-compounds see also R-						
$LuCrO_3$	$PbF_2/PbO/B_2O_3$	EV	1260	9 days	3 × 2 × 2	Wanklyn (1972)
$MgAl_2O_4$	BaF_2/MgF_2	CR/SC	1650–1510	5	4 × 3	Dugger (1966)
$MgAl_2O_4$	BaF_2/MgF_2	CR/SC	1640–1500	7	12 × 8	Dugger (1967)
$MgAl_2O_4$	Pb_2OF_2	SC	1260–1000	3	3 × 3 × 3	Linares (1962c)
$MgAl_2O_4$	PbF_2	EV	1200–1175	5 days	10 × 10 × 10	Robertson and Taylor (1968)
$MgAl_2O_4$	$PbO/PbF_2/B_2O_3$	SC	1300–900	2–7	3	Tabata and Okuda (1971)
$MgAl_2O_4$	PbF_2/B_2O_3	EV	1250	500 h	25	Wang and Zanzucchi (1971)
$MgAl_2O_4$	PbF_2/B_2O_3	EV	1250	—	25	Wang and McFarlane (1968)
$MgAl_2O_4$	PbF_2/B_2O_3	EV	1250–1220	8 days	25	Wood and White (1968)
$MgAlFeO_4$	PbO/B_2O_3	SC	1300–850	2	2.5	Remeika (1963)
$MgAl_2Si_3O_{10}$	Li_2O/WO_3	TR	600–800	—	2 × 0.3 × 0.2	Scheel (1968)
$Mg_3B_2O_6$	Na_2O/B_2O_3, PbO/B_2O_3	SC	1120–600	4.5–45	2	Kleber *et al.* (1967)
$MgCa_3Si_2O_8$	PbO	SC	1350–900	2	small	Grodkiewicz and Van Uitert (1963)
$MgCu_2$ etc.	$MgCl_2$	SC	920–	—	0.5	Nakatani *et al.* (1970)
$MgFe_2O_4$	Na_2O/WO_3	SC	1300–	2	—	Kunnmann *et al.* (1965)
$MgFe_2O_4$	PbO/B_2O_3	SC	1300–850	2	5	Remeika (1958b, 1963)
$MgFe_2O_4$	PbO	SC	1310–900	5	2–4	Rozhdestvenskaya *et al.* (1962)
$MgFe_2O_4$	PbO/B_2O_3	SC	1300–900	6	2–4	Rozhdestvenskaya *et al.* (1962)
$MgFe_2O_4$	PbF_2	EV	1100	—	—	Viting (1965)
$MgFe_2O_4$	$Pb_2P_2O_7$	SC	1310–900	4.3	3	Wickham (1962)
$MgGa_2O_4$	Pb_2OF_2	SC	1250–850	0.5	1–2 g	Giess (1962b)
$MgGeP_2$	Sn	SC	–750	—	—	Spring-Thorpe and Pamplin (1968)
$Mg_{14}Ge_5O_{24}$	PbO	SC	1300–900	4	1	Von Dreele *et al.* (1970)
						Kostiner and Bless (1971)
$Mg_{28}Ge_{7.5}O_{38}F_{10}$	PbF_2	SC	1250–	4	small	Bless *et al.* (1971)
$MgMoO_4$	LiCl	SC	800–	0.7	1	Packter and Roy (1971)
$MgO(^{17}O)$	PbF_2	EV	1280	5 days	5 × 3 × 2	Garton *et al.* (1972a)
MgO	KOH	SC	600–200	5–40	1	Kleber *et al.* (1967)
MgO	PbF_2	SC			∼3	Nielsen and Dearborn (1958, 1960)
MgO	$Na_2O/WO_3/P_2O_5$	TR	1300–1200	6 days	5 × 2 × 2	Vora and Zupp (1970)
MgO	PbF_2	EV	1230	0.3 mm/day	1 cm³	Webster and White (1969)
MgP_4	Bi/Pb/Sn	SC	1100–450	1	20 × 3 × 0.1	Gibinski *et al.* (1974)
Mg_2SiO_4	PbO	SC	1350–900	2	small	Grodkiewicz and Van Uitert (1963)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
Mg_2SiO_4	Li_2O/MoO_3	SC	1500–1100	5	10	Vutien *et. al.* (1972)
$MgSnB_2O_6$	MgB_2O_4	SC	1240–	5–50	small	Schultze *et al.* (1971)
$MgWO_4$	LiCl	SC	700–800	—	small	Packter and Roy (1971, 1973)
$MgWO_4$	Na_2SO_4, Na_2O/WO_3	SC	1000–	—	small	Schultze *et al.* (1967)
$MgWO_4$	$Na_2W_2O_7$	SC	1100–1250–700	2.5	10 × 5 × 5	Van Uitert and Soden (1960)
$MnAl_6$	Al	CR	658–710	—	—	Barber (1964)
MnBi	Bi	TR	500–300	—	—	Ellis *et al.* (1957)
$MnCr_2O_4$	Bi_2O_3	SC	1300–800	1.5	3	Mikami (1971)
$Mn_xCr_{3-x}O_4$	PbO/PbF_2	SC	1220–850	1	4	Nevriva (1971)
$MnCr_2O_4$	Na_2O/WO_3	SC	1250–	5	—	Kunnmann *et al.* (1965)
$MnCr_2O_4$	BiF_3	SC	1100–	5	8	Tsushima *et al.* (1968)
$MnFe_2O_4$	$PbO—B_2O_3$	SC	1320–950	1–2	—	Bibr *et al.* (1966)
$Mn_{2-x}Fe_xO_3$	Na_2O/WO_3	EL	725	90 mA	2–3	Barks and Kostiner (1966)
$Mn_xFe_{3-x}O_4$	Bi_2O_3/V_2O_5	SC	1150–950	0.5	10, 0.5 g	Nevriva and Holba (1972)
$MnFe_2O_4$	$Na_2B_4O_7$	TR(X)	1200–1300	—	6–7	Timofeeva and Zalesskii (1959)
$MnGa_6$	Ga	SC	—	—	1	Girgis and Schulz (1971)
Mn_5Ge_3	Hg	CR/SC	700–800	5 h, ∼200	small	Mayer *et al.* (1967)
$MnNb_2O_6$	Na_2O/WO_3	SC	1260–700	3	4 × 1 × 1	Wanklyn (1972)
Mn_2O_3(Al, Fe)	$PbF_2/PbCl_2$	SC/TR	800–850	—	11 × 9	Espinosa (1971)
MnO	PbF_2	SC	1050–950	10–25	3	Linares (1962c)
Mn_3O_4	$Na_2B_4O_7$	SC	1050–900	1	14 × 1 × 1	Nielsen (1969)
Mn_2O_3	PbF_2	SC	—	—	∼3	Nielsen and Dearborn (1960)
Mn_3O_4	$PbF_2/PbO/B_2O_3$	SC/CR	1280–950	1.2	7 × 5 × 5	Wanklyn (1972)
Mn_2O_3	LiCl, NaCl, Na_2SO_4	CR/SC	∼1000	50–80	small	Wilke (1964)
α-MnS	Na_2S_x	CR/SC/EV	∼700–300	∼25	<1	Scheel (1974)
MnS_2	$PbCl_2$	SC	750–400	3.5	small	Wilke *et al.* (1967)
Mn_5Si_3	Hg	CR/SC	550	20 h, ∼200	small	Mayer *et al.* (1967)
$MnSnB_2O_6$	MnB_2O_4	SC	1110–	5–50	small	Schultze *et al.* (1971)
MnTe	Te	ACRT/SC	1018–920	0.4	50 × 15 × 15	Mateika (1972)
$MnWO_4$	Na_2O/WO_3	SC/CR	1250–600	1.5	3 × 3 × 3	Wanklyn (1972)
$MnWO_4$	Na_2SO_4, $Na_2W_2O_7$	SC	1000–	—	small	Schultze *et al.* (1967)
MoO_2	Na_2O/MoO_3	EL	675	0.75 V, 20 mA	7 × 3 × 2	Perloff and Wold (1967)
MoO_2	Na_2MoO_4	EL	675	—	—	Wold *et al.* (1964)
MoO_3	Na_3AlF_6	THM	700–645	0.5/min.		Vigdorovich and Marychev (1964)
MoS_2	Na_2S_x	SC/EV	750–300	25	1 × 1	Scheel (1974)

$NaBa_2Nb_5O_{15}$	Na_2CO_3	SC	1500–1300	2	~3	Giess *et al.* (1969)
$NaCrS_2$	Na_2S_x	CR/SC/EV	1000–300	~25	20 × 20 × 0.2	Scheel (1974)
$NaFeTiO_4$	Fe_2O_3	SC	1350–	20	10 × 1 × 1	Reid *et al.* (1968)
$Na_{0.5}Gd_{0.5}MoO_4$	Na_2O/MoO_3	SC	1050–700	—	1.2 g	Schieber (1964)
Na_2HfSiO_5	Na_2SiO_3	SC	1350–800	10		Chukhlantsev and Poleskev (1965)
$NaInS_2$	Na_2S_x	CR/SC/EV	~750–300	~25	15 × 15 × 0.2	Scheel (1974)
$Na_{0.5}La_{0.5}Fe_{12}O_{19}$	Na_2CO_3	SC	1350–1040	0.5	2 × 2 × 3	Summergrad and Banks (1957)
$NaMo_6O_{17}$	Na_2O/MoO_3	EL	550	—	—	Wold *et al.* (1964)
$NaNbO_3$	$NaF/NaHCO_3$	SC	1300–200	40	1	Cross and Nicholson (1955)
$NaNbO_3$	NaF	SC	1300–	—	10 × 10 × 3	Gliki and Timofeeva (1960)
$NaNbO_3$	NaF	SC	—	—	~2 mm	Matthias and Remeika (1951)
$NaNbO_3(V)$	Na_2O/V_2O_5	SC	1300–	5–30	—	Miller *et al.* (1962)
$NaNbO_3$	Na_2O/WO_3	SC	1260–950	2	6 × 6 × 3	Wanklyn (1972)
$NaScTiO_4$	Na_2O/TiO_2	SC	1150–850	20	10 × 1 × 1	Reid *et al.* (1968)
$NaTaO_3$	$NaBO_2/Na_2CO_3$	SC	1250–	~200	1	Kay and Miles (1957)
$Na_2Ta_4O_{11}$	MoO_3	EV	950–1400	—	—	Roth *et al.* (1973)
Na_xWO_3	Na_2O/WO_3	EL	750–803	~1000°C	—	Fredlein and Damjanovic (1972)
Na_xWO_3	Na_2CO_3	EL	800	—	3 × 0.1 × 0.1	Scott *et al.* (1970)
Na_xWO_3	Na_2O/WO_3	EL	750–900	15–50 mA	—	Shanks *et al.* (1962)
Na_xWO_3	Na_2O/WO_3	EL	750–900	10–75 mA	30 × 30 × 30	Shanks (1972)
Na_xWO_3	Na_2O/WO_3	EL	700–900	1–1.5 V, 30–50 mA	~10	Weller *et al.* (1970)
Na_xWO_3	Na_2O/WO_3	TSSG/EL	720–800	0.5–3 V, 10–20 mA	10 × 10 × 10	Weller and Grandits (1972)
Na_xWO_3	Na_2O/WO_3	EL	700	—	<4	Wilke (1968)
Na_2ZrSiO_5	Na_2SiO_3	SC	1350–800	10	0.1–8	Chukhlantsev and Poleskev (1965)
Nb_3Sn	Sn	SC	—	—	—	Hanak and Johnson (1969)
Nd-compounds see also R-						
$NdAlO_3$	PbO/PbF_2	SC	1300–800	4.5	~5	Zonn and Joffe (1968)
$NdAlO_3$	PbO/PbF_2	SC	1280–910	0.7	~3	Garton and Wanklyn (1967b)
$Nd_3Fe_{5-x}Sc_xO_{12}$	$3PbO/4PbF_2$	SC	1260–950	5	6 × 6	Loriers *et al.* (1971)
$Nd_3Ga_5O_{12}$	PbF_2/PbO	SC	1240–900	—	0.3 g	Schieber (1964)
$NdNa_5W_4O_{16}$	Na_2WO_4	SC	1100–700	5	0.1	Hong and Dwight (1974)
$NdNbO_4$	PbF_2	SC	1200–800	5	5	Lou and White (1967)
Ni	$NiCl_2$	CR	1000	5–60 min.	1–10 μm	Lefever (1961)
Ni	$NiCl_2 + KCl + Al$	CR	800	—	small	Lefever (1962)
$NiAl_3$	Al	CR	730	—	—	Barber (1964)
NiF_2	$KCl, PbCl_2/PbF_2$	SC	930–650	3	4 × 1.5 × 1.5	Wanklyn (1969)
$NiFe_2O_4$	$PbO—B_2O_3$	SC	1320–950	1–2	~8	Bibr *et al.* (1966)
$NiFe_2O_4$	$Na_2Mo_2O_7$	SC	1200–700	3	3	Damay and Heindl (1965)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$NiFe_2O_4$	$BaO/Bi_2O_3/B_2O_3$	SC	1320–1150	1	5	Elwell *et al.* (1972)
$NiFe_2O_4$	$Na_2B_4O_7$	SC	1330–1250	2	2	Galt *et al.* (1950)
$Ni(Zn)Fe_2O_4$	$NaCO_3$	LPE/EV	1000–1400	5–20 h	$10 \times 10 \times 0.05$	Gambino (1967)
$NiFe_2O_4$	Bi_2O_3/V_2O_5	SC	1350–950	1	3	Garton *et al.* (1972b)
$NiFe_2O_4$	PbO/PbF_2	—	—	—	6	Gendelev *et al.* (1964)
$NiFe_2O_4$	$Na_2Fe_2O_4$	TR	1350	14 days	~10	Kunnmann *et al.* (1963)
$NiFe_2O_4$	PbF_2/PbO	SC	1220–900	3–4	10	Makram and Krishnan (1962)
$NiFe_2O_4$	PbO/PbF_2	SC	1220–900	3	10	Makram and Krishnan (1963)
$Ni(Zn, Co)Fe_2O_4$	PbO/B_2O_3	SC	1280–	4	—	Manzel *et al.* (1963)
$Ni(Zn)Fe_2O_4$	PbO/PbF_2	SC	1220–1150	2	4	Manzel (1967)
$NiFe_2O_4$	$NaBO_2/NaF$	SC	1100–	0.3	15	Neuhaus and Liebertz (1962)
$NiFe_2O_4$	PbO	SC	1330–850	10	5–7	Nowicki (1962)
$NiFe_2O_4$	BaO/B_2O_3	SC	1300–1187	0.5	3	Quon *et al.* (1970)
$NiFe_2O_4$	PbO	SC	1300–900	10	—	Remeika (1954, 1958b)
$NiFe_2O_4$	PbO/B_2O_3	SC	1300–850	2	5	Remeika (1963)
$NiFe_2O_4$	$BaO/Bi_2O_3/B_2O_3$	SC	1350–900	0.8	5	Robertson *et al.* (1969)
$NiFe_2O_4$	PbO	SC	1280–900	5.4	2–3	Sekizawa and Sekizawa (1962)
$NiFe_2O_4$	BaO/B_2O_3	TR/TSSG	1230	—	$10 \times 8 \times 8$	Smith and Elwell (1968)
$Ni_{1+x}Ga_xFe_{2-2x}O_4$	PbO/B_2O_3	SC	1250–900	1	—	Krishnan (1968b)
$NiMn_2O_4$	Bi_2O_3/B_2O_3	SC	1280–860	1	6	Makram (1967)
$NiNb_2O_6$	Na_2O/WO_3	SC	1260–700	3	$2.5 \times 0.7 \times 0.7$	Wanklyn (1972)
NiO	NaCl, PbF_2	SC	—	—	small	Packter (1968)
NiO	PbF_2	SC	1200–900	3	0.5	Hart and White, see White (1966)
NiO	PbF_2	SC	1290–800	2	6	Hill and Wanklyn (1968)
NiO	KF, LiCl, Na_2SO_4	CR/SC	~1000	50–80	small	Wilke (1964)
NiO(Li)	Na_2SO_4	—	—	—	small	Wilke *et al.* (1965)
NiS_2	Na_2S_x	CR/SC/EV	800–300	~25	$1 \times 1 \times 1$	Scheel (1974)
NiS_2	$PbCl_2$	SC	750–400	3.5	~2	Wilke *et al.* (1967)
Ni_2Si	Hg	CR/SC	500	10 h, ~200	small	Mayer *et al.* (1967)
$NiTiO_3$	PbO/V_2O_5	SC	1320–950	1	$3 \times 3 \times 3$	Garton *et al.* (1972b)
$NiTiO_3$	$Pb_2V_2O_7$	SC	—	—	10	Wanklyn (1970)
$NiWO_4$	$Na_2WO_4 + NiCl_2 + NaCl$	SC/CR	900–	—	—	Keeling (1957)
$NiWO_4$	Na_2SO_4, Na_2O/WO_3	SC	1000–	—	small	Schultze *et al.* (1967)
$NiWO_4$	Na_2O/WO_3	SC/CR	1250–600	1.5	$6 \times 6 \times 6$	Wanklyn (1972)
NpO_2	PbF_2/B_2O_3	TR/SC	1350–1250	0.5	$3 \times 2 \times 2$	Finch and Clark (1970)

NpO_2	PbF_2/B_2O_3	EV	1250–1350	4–10 days	3	Finch and Clark (1970)
NpO_2	Li_2O/MoO_3	TR	1315–1310	—	2	Finch and Clark (1970)
NpO_2	Li_2O/MoO_3	EV	1250–1350	4–10 days	3	Finch and Clark (1970)
$PbAl_{12}O_{19}$	$PbO/PbF_2/La_2O_3$	SC	1250–1000	4	2	Chase and Wolten (1965)
$PbAl_{12}O_{19}$	$PbO/PbF_2/B_2O_3$	SC			1	Comer *et al.* (1967)
$PbAl_{12}O_{19}$	Pb_2OF_2	SC	1260–1000	3	$3 \times 3 \times 3$	Linares (1962c)
$PbAl_2Si_2O_8$	PbO/PbF_2	SC/CR	1250–900	0.5–1	$15 \times 2 \times 0.1$	Scheel (1971)
$Pb_3CdNb_2O_9$	PbO	SC	1200–800	5–10	10	Ichinose *et al.* (1971)
Pb_2CoWO_6	PbO/WO_3	SC	1200–800	5	—	Bokov *et al.* (1965)
$Pb_3M(Nb, Ta)_2O_9$ with M = Co, Mg, Ni, Zn	PbO	SC	1300–800	30–100	1–2	Bokov and Mylnikova (1961a)
$PbCrO_3$	PbO	HPS	900	60–65 kb	small	Chamberland (1967)
$PbCrO_3$	PbO	HPS	1150	65 kb	0.25	DeVries and Roth (1968)
$PbFe_{12}O_{22}$	PbO/PbF_2	SC	1350–	1–3	20	Komatsu and Sunagawa (1964)
$PbFe_{12}O_{22}$	—	SC	1390–900	—	0.8 g	Schieber (1964)
$Pb(Fe, Al)_{12}O_{19}$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.5–5	25×20	Van Uitert *et al.* (1970b)
Pb_2FeTaO_6	PbO	SC	1200–900	5–10	$1 \times 1 \times 1$	Nomura *et al.* (1968)
$PbGa_{12}O_{19}$	$PbF_2/Bi_2O_3/La_2O_3$	SC	1250–1000	4	2	Chase and Wolten (1965)
$Pb_3MgNb_2O_9$	PbO	SC	1200–	20–40	—	Bokov and Mylnikova (1961b)
$Pb_3MgNb_2O_9$	$PbO/MgO/B_2O_3$	TSSG/SC	1150	0.5	10×10	Bonner and Van Uitert (1967)
$Pb_3MgNb_2O_9$	PbO	SC	1200–800	10–60	0.5	Mylnikova and Bokov (1962)
$Pb(NO_3)_2$	$KNO_3/NaNO_3$ or $KNO_3/LiNO_3$	EV	140–250	2 days	5–10	Egghart (1967)
$Pb_3NiNb_2O_9$	PbO	SC	1200–	20–40	—	Bokov and Mylnikova (1961b)
$Pb_3NiNb_2O_9$	PbO	SC	1200–800	10–60	0.5	Mylnikova and Bokov (1962)
PbS	Na_2S_x	CR/SC/EV	650–300	25	$1 \times 1 \times 1$	Scheel (1974)
$PbSO_4$	Na_2SO_4	SC/EV	900–700	10	1	Patel and Bhat (1971)
$Pb_xSr_{1-x}TiO_3$	$PbO/SrO/B_2O_3$	THM/TR	~1100	0.1–10/day	$20 \times 10 \times 10$	Dibenedetto and Cronan (1968)
$PbTa_2O_6$	$Pb_2V_2O_7$	TSSG/SC	1186	1.5, 4.0	$5 \times 2 \times 2$	Bruton and White (1973)
$PbTa_2O_6$	Bi_2O_3/B_2O_3	TSSG/SC	1054	1.5, 4.0	4	Bruton and White (1973)
$Pb_3Ta_4O_{13}$	PbF_2/Ta_2O_5	CR/SC	1100–800	3–5	—	Weaver and Li (1969)
PbTe	Pb	LPE/SC		12–60	—	Wagner and Thompson (1970)
$PbTiO_3$	PbO/V_2O_5	SC	~1200–800	—	1	Belyaev and Nesterova (1952)
$Pb(Ti, Zr)O_3$	KF/PbF_2; PbO/PbF_2	SC/EV	1200–800	20	—	Fushimi and Ikeda (1964)
$Pb(Ti, Zr)O_3$	KF/PbF_2	SC	1150–950	7	$0.1 \times 0.08 \times 0.03$	Fushimi and Ikeda (1965)
$Pb(Ti, Zr)O_3$	PbF_2/KF	SC	1000–700	40	~0.5	Ikeda and Fushimi (1962)
$PbTiO_3$	KF	SC	920–600	60	$9 \times 7 \times 0.05$	Kobayashi (1958)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$PbTiO_3$	$PbCl_2$	SC	~900–500	5–7	1	Nomura and Sawada (1952)
$PbTiO_3$	PbO	SC	1100–700	5	$5 \times 3 \times 1$	Remeika and Glass (1970)
$PbTiO_3$	PbO	SC	1300–1040	50	$3 \times 1.5 \times 0.2$	Rogers (1952)
$PbTiO_3$	PbO/B_2O_3	SC	~1000–850	—	2–3	Sholokhovich (1958)
$PbTiO_3$	Na_2SiO_3	SC	~1000–850	—	—	Sholokhovich and Berkova (1955)
$PbTiO_3$	PbO/B_2O_3	SC	960–600	5–20	4×0.1	Sholokhovich and Khodakov (1962)
$Pb(Ti, Zr)O_3$	various	SC	~1250–550	5–20	—	Tsuzuki *et al.* (1968)
$Pb(Ti, Zr)O_3$	$KF/PbF_2/Pb_3(PO_4)_2$	SC	1140–700	3–40	—	Tsuzuki *et al.* (1969)
$Pb(Ti, Zr)O_3$	$KF/PbF_2/Pb_3(PO_4)_2$	SC	1115–800	5	1–2.5	Tsuzuki *et al.* (1973)
$PbTiP_2O_8$	$Pb_2P_2O_7$	SC/CR	1280–910	2	$4 \times 1.5 \times 0.5$	Wanklyn (1972)
$PbWO_4$	Na_2WO_4	SC	1000–	—	small	Schultze *et al.* (1967)
$Pb_3ZnNb_2O_9$	$PbO/Na_2B_4O_7$	—	—	—	$0.8 \times 0.8 \times 0.5$	Berezhnoi *et al.* (1968)
$Pb_3ZnNb_2O_9$	PbO/B_2O_3	SC?	—	—	$2 \times 0.5 \times 0.1$	Krainik *et al.* (1971)
$Pb_3ZnNb_2O_9$	PbO	SC	1200–	5–10	8	Yokomizo *et al.* (1970)
$PbZrO_3$	PbF_2	SC	1250–	50	0.3	Jona *et al.* (1955a)
$PbZrO_3$	$PbF_2/PbO/B_2O_3$	SC	1280–800	2–3	1–3	Scott and Burns (1972)
Pr-compounds see also R-						
$PrAlO_3$	PbO/PbF_2	SC	1285–960	3.5	2	Garton and Wanklyn (1967b)
$PrAlO_3$	PbO/PbF_2	SC	1300–800	4.5	~5	Zonn and Joffe (1968)
$PrAlO_3$	PbF_2	EV	850	—	—	Vutien and Anthony, after Laurent (1969)
$Pr_3(Fe, Sc)_5O_{12}$	$3PbO/4PbF_2$	SC	1260–950	5	1–2	Loriers *et al.* (1971)
PrO_{2-x}	PbO	SC	1260–1000	3	1–2	Feigelson (1971)
Pt_2Si	Hg	CR/SC	450–550	~200	small	Mayer *et al.* (1967)
PuO_2	$Li_2Mo_2O_7$	TR	1300–1270	1 mm/weak	$3 \times 3 \times 2$	Finch and Clark (1972)
R-compounds see also individual rare earths and yttrium!						
$RAlO_3(R = Dy—Lu)$	NaOH	HPS	1200	32.5 kb, 4 h	small	Dernier and Maines (1971)
$RAlO_3$	Pb_2OF_2	SC	1260–1000	3	$6 \times 6 \times 3$	Linares (1962c)
$RAlO_3$	PbO	SC	1300–850	30	~1	Remeika (1956)
$RAlO_3$	$PbO/PbF_2/B_2O_3$	SC	1290–800	2	3–6	Wanklyn (1969)
$RAlO_3$	Bi_2O_3/B_2O_3	SC	1315–815	2	3–6	Wanklyn (1969)
$R_3Al_5O_{12}$	PbO/PbF_2	SC	1250–1000	4.2	2–10	Chase and Lefever (1960)
$R_3Al_5O_{12}(Cr)$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.25–2	—	Kestigian and Holloway (1967)
$R_3Al_5O_{12}$	PbF_2, PbF_2/PbO	EV	1250	100 h	$8 \times 8 \times 8$	Tsushima (1967)

$RAl_3(BO_4)_3$	K_2SO_4/MoO_3	SC	1150-900	2	10	Ballman (1962)
$RAsO_4$	$Pb_2As_2O_7$	SC/EV	1300-925	1-4	$7 \times 2 \times 0.2$	Feigelson (1967)
$RAsO_4$	$Pb_2As_2O_7$	SC	1250-	2	$6.5 \times 1 \times 1$	Hintzmann and Müller-Vogt (1969)
RB_4	Al	SC	1550-1000	10 min.	1	Fisk *et al.* (1972)
RB_4	R	SC	1700-1000	10 min.	small	Fisk *et al.* (1972)
RBO_3	PbO, $PbO/PbF_2/MoO_3$	SC	1280-800	1-6	~ 8	Wanklyn (1973b)
$RCoO_3$	PbO	SC	1300-850	30	~ 1	Remeika (1956)
$RCrO_3$	PbO, Bi_2O_3	SC	1300-850	30	~ 1	Remeika (1956)
$RCrO_3$	PbF_2/B_2O_3	EV	1240	10 days	~ 5	Wanklyn (1969)
$RCr_3(BO_4)_3$	K_2SO_4/MoO_3	SC	1150-900	2	10	Ballman (1962)
RF_3	BeF_2	SC	1100-		small	Van Uitert *et al.* (1969)
$RFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1300-950	0.5-1	2-18	Gendelev and Titova (1971)
$RFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1300-850	2-4	10	Giess *et al.* (1970)
$RFeO_3$	PbO	SC	1300-850	30	~ 1	Remeika (1956)
$ReFeO_3$	PbO/B_2O_3	SC	1300-950	2	$10 \times 5 \times 2$	Remeika and Kometani (1968)
$RFeO_3(Bi)$	$PbO/Bi_2O_3/B_2O_3$	SC	1300-950	1-4	~ 10	Remeika *et al.* (1969)
$RFeO_3$	PbO/B_2O_3	LPE/SC	1150-1100	2-20	4 μm/h	Shick and Nielsen (1971)
$RFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1290-850	2	5	Wanklyn (1969)
$R_3Fe_5O_{12}$	PbO; Bi_2O_3	SC	1350-930	1	6 g	Nielsen and Dearborn (1958), Nielsen (1958)
$R_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1300-950	0.5-0.8	50	Van Uitert *et al.* (1970c)
$RGaO_3$	PbO	SC	1300-850	30	~ 1	Remeika (1956)
$RGaO_3$	NaOH	HPS	1000	72 kb, 200	small	Marezio *et al.* (1966)
$RGaO_3$	NaOH	HPS	1000	72 kb	small	Marezio *et al.* (1968a)
$RGaO_3$	PbO/B_2O_3	SC	1300-	1-5	small	Marezio *et al.* (1968a)
$R_3Ga_5O_{12}$	PbO/PbF_2	SC	1250-1000	4.2	2-10	Chase and Lefever (1960)
$R_3Ga_5O_{12}$	PbO/PbF_2	SC	1250	100 h	$8 \times 8 \times 8$	Tsushima (1967)
RGe_2	Hg	CR/SC	450-550	~ 200	small	Mayer *et al.* (1967)
R_2GeO_5	PbO/GeO_2	SC	1270-800	5	8	Wanklyn (1973a)
$R_2Ge_2O_7$	PbF_2	EV	1270	1 week	8	Wanklyn (1973a)
R_2GeMoO_8	PbO/MoO_3	SC	1290-900	2-3	2	Swithenby *et al.* (1974)
R_2GeWO_8	PbO/WO_3	SC	1280-900	4	2	Swithenby *et al.* (1974)
$RLiF_4$	LiF	TSSG/SC	800-900-	0.5-2	$20 \times 20 \times 100$	Gabbe and Harmer (1968)
$RMnO_3$	Bi_2O_3	SC	1400-1000	—	1	Bertaut *et al.* (1963)
$RMnO_3$	Bi_2O_3	EV	1450	—	1	Bertaut *et al.* (1963)
$RMnO_3$	$PbF_2/PbO/B_2O_3$	SC	1280-900	2	Plates ~ 20 mm^2	Wanklyn (1972)
$RMnO_3$	Bi_2O_3	SC	1200-	—	0.5	Yakel *et al.* (1963)
RMn_2O_5	$PbO/PbF_2/B_2O_3$	SC	1280-900	2	—	Schieber *et al.* (1972a)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
RMn_2O_5	$PbF_2/PbO/B_2O_3$	SC	1280–900	1.2	7 × 5 × 5	Wanklyn (1972)
RMn_x	Hg	CR	700–1100		small	Kirchmayr (1965)
RN	Hg	CR/SC	~320	—	small	Busch *et al.* (1970)
RN	Hg	CR/EL	1000	—	small	Magyar (1968)
$R_{0.5}Na_{0.5}MoO_4$	Na_2O/MoO_3	SC	1250–850	1.1–3.2	1.2 g	Schieber and Holmes (1964)
$RNbO_4$	Bi_2O_3/B_2O_3	SC	1340–1050	3	5	Garton and Wanklyn (1968)
R_3NbO_7	PbO/PbF_2	SC	1285–950	3	1	Garton and Wanklyn (1968)
ROF	$PbO/PbF_2/Al_2O_3$	SC	1280–845	3	—	Garton and Wanklyn (1968)
$R_{2/3}Pb_{1/3}MnO_3$	Pb_2OF_2	SC	1150–	—	1–5	Janes and Bodnar (1971)
RPO_4	$Pb_2P_2O_7$	SC	1300–975	4	25 × 4 × 0.5	Feigelson (1964)
RPO_4	$Pb_2P_2O_7$	SC	1150–950	2	15 × 1.5 × 1	Hintzmann and Müller-Vogt (1969)
RPO_4	$Pb_2P_2O_7$	SC	1330–930	0.6–0.9	15 × 2 × 2	Smith and Wanklyn (1974)
RPO_4(Tb—Er)	$Pb_2P_2O_7$	SC	1320–950	1	20 × 2 × 2	Wanklyn (1972)
RPO_4(La—Gd)	$Pb_2P_2O_7$	SC	1330–1050	1	3 × 0.5 × 0.2	Wanklyn (1972)
$RScO_3$	PbO	SC	1300–850	30	~1	Remeika (1956)
RSi_2	Hg	CR/SC	450–550	~200	small	Mayer *et al.* (1967)
$R_2Ti_2O_7$	PbF_2	EV	1235	1 week	3	Garton and Wanklyn (1968)
R_2TiO_5	PbO	SC	1280–940	3	3	Garton and Wanklyn (1968)
RVO_4	V_2O_5	TR	1000	—	10	Brixner and Abramson (1965)
RVO_4	$Pb_2V_2O_7$	SC	1300–950	2–4	6 × 0.5 × 0.1	Feigelson (1968)
RVO_4	$Pb_2V_2O_7$	SC	1250–	2	7 × 3 × 0.5	Hintzmann and Müller-Vogt (1969)
RVO_4	$Pb_2V_2O_7$	SC	1330–930	0.6–0.9	15 × 2 × 2	Smith and Wanklyn (1974)
Rb_2CoCl_4	$CoCl_2$	SC	538–	—	~0.5 cm^3	Makovsky *et al.* (1974)
Rb_3CoCl_5	$CoCl_2$	SC	506–	—	~0.5 cm^3	Makovsky *et al.* (1974)
$RbCoCrF_6$	$RbCl/CoCl_2$	—	950–	—	8	Nouet *et al.* (1971)
$RbCoVF_6$	$RbCl/CoCl_2$	—	950–	—	4	Nouet *et al.* (1971)
Rb_2KGaF_6	RbCl/KCl	SC	1060–550	3.5	~2	Garton and Wanklyn (1967a)
Rb_2KGaF_6	PbF_2	SC	1060–550	3.5	~2	Garton and Wanklyn (1967a)
$Rb_3Mn_2Cl_4$	RbCl	SC	475–	—	25 × 14	Makovsky *et al.* (1971)
Rb_2MnCl_4	RbCl	SC	462–	—	25 × 14	Makovsky *et al.* (1971)
Rb_2MnF_4	RbF	TSSG/SC	600–700–	5–10	25–30 g	Gabbe and Linz (1974)
Rb_2MnF_4	RbF + YF_3	TSSG/SC	600–700–	5–10	25–30 g	Gabbe and Linz (1974)
$RbMnCrF_6$	$RbCl/MnCl_2$	—	900–		2	Nouet *et al.* (1971)
$RbNiF_3$	RbCl	EV/CR	800–900	—	15 × 5 × 5	Syrnikov (1971)
$RbNiFeF_6$	$RbCl/NiCl_2$	—	950–		3	Nouet *et al.* (1971)

Rb_xWO_3	Rb_2CO_3	EL	800	—	~1	Scott *et al.* (1970)
$RbZnCrF_6$	$RbCl/ZnCl_2$	—	650–	—	1	Nouet *et al.* (1971)
SbSI	SbI_3	SC	450–	12	10 × 5 × 0.5	Mori and Tamura (1964)
SbSI	SbI_3	SC	475–350	0.4–0.75	30 × 6 × 6	Nassau *et al.* (1970)
ScN	Hg	CR/SC	~320	—	small	Busch *et al.* (1970)
Sc_2O_3	PbO/PbF_2	SC	1260–1000	3	2	Feigelson (1971)
Sc_2TiO_5	Na_2WO_4	SC	1460–1000	2	2 × 1 × 1	Ito (1971)
Se	Tl_2Se_3	VLS	185	25 μm/h	0.5 × 0.03	Keezer and Wood (1966)
Si	several metals	SC		0.15, 0.7, 1.5	small	Faust *et al.* (1968)
Si	Al, Ag, Au, Zn	SC	800–1000–	0.7	small	Faust and John (1964)
Si	Ga, Sn	SC	980–1050–	0.15, 1.5	small	Faust and John (1964)
Si	Au	VLS(X)	500	60 h	15 μm layer	Filby and Nielsen (1966)
Si	Au, Ni	VLS(X)	950–1150	—	Whisker	James and Lewis (1965)
Si	Ga, In	SC	—	—	small	Keck (1953)
Si	Au	VLS	~1050	—	15 × 0.3 × 0.3	Wagner and Doherty (1966)
Si	Au	VLS(X)	950	—	0.2 Whisker	Wagner and Ellis (1964)
Si	Au etc.	VLS	~750–950	1 μm/min.	0.2 Whisker	Wagner and Ellis (1965)
SiC	Si	TR	~1600	—	15 × 0.1 × 0.1	Bartlett *et al.* (1967)
SiC	Si	VLS	1400–1450	—	5 × 1 × 1	Berman and Ryan (1971)
SiC	Si	TR/SC	1450–2600	—	1	Beckmann (1963)
SiC	Si	SC	1800–1400	—	0.2	Bibr *et al.* (1966)
SiC	Si	THM	1800	~6 μm/min.	small	Gillessen and Von Münch (1973)
SiC	Cr	TSM	~1750	—	10 × 3 × 3	Griffiths and Mlavsky (1964)
SiC	Si	TSSG	~1665		4	Halden (1960)
SiC	Si/Al	LPE	1600		0.1	Hall (1958)
SiC	Cr	TR	1750–1800	—	—	Kalnin and Tairov (1966)
SiC	Cr	TSM/LPE	1750	—	12	Knippenberg and Verspui (1966)
SiC	Cr	TSM	~1650	—	210 μm/h	Kumagawa *et al.* (1970)
SiC	Co/Si	TSSG	~1600–2000	—	small	Marshall (1969)
SiC	Si	SC	2000	8–24 h	10 × 2 × 0.2	Marshall (1969)
SiC	Si	TR	1500	50°/cm	1 g	Nelson *et al.* (1966)
SiC	Si	TR	—	—	2 × 0.5 × 0.5	Shaskov and Shushlebina (1964)
SiC	Cr	SC	1900–1640	26	small	Wolff *et al.* (1969)
SiC	Cr	TSM	1650–1900	3 mm/day	few mm	Wolff *et al.* (1969)
SiC	Cr/Si, Cr/Ta	TSM	1400–1700	~0.1/h	5 × 5 × 2	Wright (1965)
Si_3N_4	Si	TR	1650	6–12 h	4 × 0.3	Inomata and Yamane (1974)
SiO_2	Li_2O/MoO_3	EV	1165	5 days	0.5	Osmer and Chase (1972)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
SiO_2(Coesite)	$Na_2SiO_3/(NH_4)_2HPO_4$	HPS	750	35 kb, 15 h	small	Robertson *et al.* (1957)
SiP_2	Sn/Mg	SC	–750	—	$5 \times 0.5 \times 0.1$	Spring-Thorpe and Pamplin (1968)
SiP_2	Mg/Sn	SC	1150–400	10	$20 \times 2 \times 2$	Spring-Thorpe (1969)
Sm-compounds see also R-						
$SmAlO_3$	PbO/PbF_2	SC	1290–960	2.3	2	Garton and Wanklyn (1967b)
$SmAlO_3$	PbO/PbF_2	SC	1200–800	1.5	~10	Zonn and Joffe (1968)
SmB_6	Al	SC	1500–1000	—	3	Sturgeon *et al.* (1974)
$Sm_{1-x}Dy_xFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1300–900	0.5	—	Pierce *et al.* (1969)
$SmFeO_3$	PbF_2/PbO	SC	1280–900	—	0.1 g	Schieber (1964)
(Sm, Tb)FeO_3	$PbO/PbF_2/B_2O_3$	SC	1300–900	0.5	15	Van Uitert *et al.* (1970a)
$Sm_3Fe_5O_{12}$	PbF_2/PbO	SC	1240–900	—	0.25 g	Schieber (1964)
$Sm_3Ga_5O_{12}$	PbF_2/PbO	SC	1240–900	—	85 mg	Schieber (1964)
$Sm_3Ga_5O_{12}$	PbF_2/PbO	SC	1250–	—	—	Schieber and Holmes (1965)
(Sm, Tb)FeO_3	$PbO/PbF_2/B_2O_3$	SC/EV	1300–970	0.5	—	Quon *et al.* (1971)
SnO_2	PbF_2	SC	1200–900	3	1	Hart and White, see White (1966)
SnO_2	Cu_2O	EV?	1250	1 week	$10 \times 1 \times 1$	Kunkle and Kohnke (1965)
$SnZnAs_2$	Sn	SC	800–	1.3	small	Faust and John (1964)
$SrAl_{12}O_{19}$(Pb)	Pb_2OF_2	SC	1260–1000	3	$3 \times 3 \times 3$	Linares (1962c)
$SrCrO_4$	LiCl	SC	800–	0.7	1	Packter and Roy (1971)
$SrEu_2Fe_2O_7$	PbO	SC	1250–1000	6	$1 \times 1 \times 0.4$	Drofenik *et al.* (1973)
Sr_2EuFeO_5	SrO(?)	SC	1560–1540		0.4×0.3	Drofenik *et al.* (1974)
$SrFe_{12}O_{19}$	$Fe_2O_3 + SrCl_2$	CR	1250	50	1	Brixner (1959), Brixner and Weiher (1970)
$SrFe_{6-x}Al_xO_{19}$	SrO/B_2O_3	SC	1350–1000	6–35	$10 \times 10 \times 0.5$	Goto and Takahashi (1973)
$SrFe_{12}O_{19}$	Na_2O	SC				Shick and Buessen (1969), see Gambino and Leonhard (1961)
$Sr_2KTa_5O_{15}$	$K_3AlF_6/SrCl_2$	SC	1350–900	5	$8 \times 4 \times 4$	Sugai and Wada (1971)
$Sr_2MgGe_2O_7$	GeO_2	TSSG/SC	1468–	0.5	12 g	Belruss *et al.* (1971)
$SrMoO_4$	LiCl, $SrCl_2$	SC	800–	0.7	4	Packter and Roy (1971)
$SrNb_2O_7$	$SrCl_2$	CR	1000, 1200	2 h	small	Brixner and Weiher (1970)
$Sr_5(PO_4)_3Cl$	$SrCl_2$	CR	1000, 1200	2 h	10	Brixner and Weiher (1970)
$SrRuO_3$	$SrCl_2$	SC	1260–800	2	$2 \times 2 \times 1$	Bouchard and Gillson (1972)
$SrSO_4$	LiCl, $SrCl_2$	SC	1000–	0.7	1	Packter and Roy (1971)
$SrSO_4$	NaCl	SC	950–25	~38	6×2	Patel and Bhat (1971)
$SrSO_4$	NaCl	SC/I	0–700	10	6×3	Patel and Bhat (1971)

$SrSO_4$	$LiCl, NaCl, Li_2SO_4$	SC	1000–800	5	~4	Wilke (1962)
$SrSnO_3$	$SrCl_2$	CR	1000, 1200	2 h	small	Brixner and Weiher (1970)
$SrSnO_3$	$SrCl_2$	EV	800–900	—	—	Smith and Welch (1960)
$SrSnB_2O_6$	SrB_2O_4	SC	1340–	5–50	small	Schultze *et al.* (1971)
$Sr_2Ta_2O_7$	$SrCl_2$	CR	1000, 1200	2 h	small	Brixner and Weiher (1970)
$SrTiO_3$	TiO_2	TSSG/SC	1530–	0.5	7.5 g	Belruss *et al.* (1971)
$SrTiO_3$	$SrCl_2$	CR	1000, 1200	2 h	small	Brixner and Weiher (1970)
$SrTiO_3$	Fluorides	SC	1200–700	—	$15 \times 0.2 \times 0.2$	Izvekov *et al.* (1968)
$SrTiO_3$	SiO_2	SC	1410–900	6	2.5	Robbins (1968)
$SrTiO_3$	KF/LiF	SC	1200–770	2.7	$7 \times 7 \times 7$	Sugai *et al.* (1968)
$SrTiO_3$	KF/K_2MoO_4	SC	1200–770	2.7	$4 \times 4 \times 4$	Sugai *et al.* (1968)
Sr_2VO_4Br	$SrBr_2$	CR	800, 1000	2 h	1	Brixner and Bouchard (1970)
Sr_2VO_4Cl	$SrCl_2$	CR	1000, 1200	2 h	1	Brixner and Bouchard (1970)
$SrWO_4$	$SrCl_2$	CR	1000, 1200	2 h	small	Brixner and Weiher (1970)
$SrWO_4$	LiCl	SC	700–800	—	small	Packter and Roy (1971, 1973)
$SrWO_4$	$Na_2W_2O_7$	SC	1000–	—	small	Schultze *et al.* (1967)
$SrWO_4$	$Na_2W_2O_7$	SC	1100–1250–700	2.5	$10 \times 5 \times 5$	Van Uitert and Soden (1960)
$SrZrO_3$	KF	SC	1250–	7	—	Nemeth and Tinklepaugh (1966)
$SrZrB_2O_6$	SrB_2O_4	SC	1300–	5–50	small	Schultze *et al.* (1971)
TaC	Al, Fe	SC	1500–2100–	—	—	Robbins (1959)
TaC	Fe	SC	2200–1450	10	2	Rowcliffe and Warren (1970)
Tb-compounds see also R-						
$TbAlO_3$	PbO/PbF_2	EV	1207	21 days	2	Garton and Wanklyn (1967b)
$TbFeO_3(Cr)$	PbF_2/B_2O_3	EV	1300	5 days	5	Van Uitert *et al.* (1970)
$TbNbO_4$	Bi_2O_3/V_2O_5	SC	1330–900	1	5	Garton *et al.* (1972b)
TbO_{2-x}	PbO	SC	1260–1000	3	1–2	Feigelson (1971)
ThO_2	PbF_2/Bi_2O_3	SC	1260–950	4	3.5–6	Chase and Osmer (1964)
ThO_2	PbF_2/Bi_2O_3	SC	1250–1000	2–4	$6 \times 4 \times 3$	Chase and Osmer (1967)
ThO_2	$Li_2W_2O_7/B_2O_3$	TR/EV(X)	~1250	$\Delta T = 50$–75	10×3	Finch and Clark (1965)
ThO_2	PbO/V_2O_5	SC	1330–1000	1	2.5×2.5	Garton *et al.* (1972b)
ThO_2	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
ThO_2	$Na_2B_4O_7$	EV	—	—	1–2	Harari *et al.* (1967)
ThO_2	Li_2O/MoO_3	SC	1100–700	3	2	Hart and White, see White (1966)
ThO_2	$NaF/PbF_2/B_2O_3$	SC	1300–1000	—	$11 \times 3 \times 3$	Linares (1967c)
ThO_2	NaF/B_2O_3	TR(X)	920	$\Delta T = 75$	0.2/day	Linares (1967c)
$ThSiO_4$	Li_2O/MoO_3	SC	1225–900	2–4	2–7	Chase and Osmer (1966a)
$ThSiO_4$	$Li_2W_2O_7, Li_2Mo_2O_7, Na_2W_2O_7$	TR	1200	10–20°/cm	$7 \times 5 \times 2$	Finch *et al.* (1964)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$ThTi_2O_6$	$Na_2B_4O_7$	EV	—	—	5–8	Harari *et al.* (1967)
TiB_2	Fe	SC	—	—	—	Bernard (1963)
TiB_2	Fe	SC	1700–1400	5	~3	Nakano *et al.* (1971)
TiB_2	Al	SC	1450–25	—	~2	Higashi and Atoda (1970)
TiO_2	$Na_2B_4O_7/LiF$	SC	1200–800	0.5–1	~3	Anikin *et al.* (1965)
TiO_2	Na_2O/B_2O_3	EV	1200		$15 \times 0.5 \times 0.5$	Berkes *et al.* (1964)
TiO_2	$Na_2B_6O_{10}$	SC/EV	1300–1000	22	$30 \times 1.5 \times 0.5$	Berkes *et al.* (1965)
TiO_2	PbO/V_2O_5	SC	1330–1000	1	$20 \times 1.5 \times 1.5$	Garton *et al.* (1972b)
TiO_2	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
TiO_2	$Na_2B_4O_7$	EV	1200	—	5–8	Harari *et al.* (1967)
TiO_2	Li_2O/MoO_3, Na_2O/MoO_3, K_2O/MoO_3	SC	1100–700	3	$10 \times 3 \times 3$	Hart and White, see White (1966)
TiO_2	Fluorides	SC	1200–700	—	$10 \times 1 \times 1$	Izvekov *et al.* (1968)
TiO_2	NaCl					Packter (1968)
TiO_2	Li_2O/WO_3	SC	1250–800	5	$20 \times 1.5 \times 1.5$	Sugai *et al.* (1967)
TiO_2	Na_2O/B_2O_3	SC	1370–980	1	100	Russell *et al.* (1962)
TiO_2	Na_2SO_4	CR/SC	~1000	50–80	small	Wilke (1964)
Ti_3O_5	$Na_2B_4O_7/B_2O_3$	CR/EV	1360–1250		$5 \times 0.5 \times 0.2$	Bartholomew and White (1970), Roy and White (1972)
Ti_4O_7	$Na_2B_4O_7/B_2O_3$	CR/EV	1200–1150		$5 \times 0.5 \times 0.2$	Bartholomew and White (1970), Roy and White (1972)
Ti_5O_9, Ti_6O_{11}, Ti_8O_{15}, $Ti_{10}O_{19}$	$Na_2B_4O_7/B_2O_3$	CR/EV	1350–1150		small	Bartholomew and White (1970), Roy and White (1972)
Tm-compounds see also R-						
TmB_2	Tm	CR	1750	20 min.	$1 \times 1 \times 0.01$	Castellano (1972)
$TmFeO_3$	Bi_2O_3	SC	1300–950	0.5–1	3×12	Gendelev and Titova (1971)
$Tm_3Ga_5O_{12}$	PbO/B_2O_3, PbO/PbF_2	SC	1280–900		0.1 g	Schieber (1967)
UO_2	$Na_2B_4O_7(+H_2)$	EV?	1100	8 h	0.02	Bard (1957)
VGa_5	Ga	SC	900–	~20	0.05	Girgis *et al.* (1966)
VO_2	V_2O_5	CR/EV	1215	30–50 h	~17	Aramaki and Roy (1968)
VO_2	V_2O_5	SC/CR	1230–	—	small	Kimizuka *et al.* (1970)
VO_2	V_2O_5	CR/EV	900	2 days	1	Kitahiro and Watanabe (1967)
VO_2	V_2O_5	CR/EV	900–1150	—	$5 \times 5 \times 5$	Sasaki (1965, 1967)

VO_2	V_2O_5	CR/EV	1000	7 days	—	Sasaki and Watanabe (1964)
VO_2	V_2O_5	CR/SC	1000–750	4	$10 \times 2 \times 2$	Sobon and Greene (1966)
V_2O_3	KF/V_2O_5	CR/SC	930–940	90 h, 40	6.5×2	Foguel and Grajower (1971)
$V_2O_3(Cr)$	KF/V_2O_5	CR/SC	950	72 h	5×1	McWhan and Remeika (1970)
V_2O_3	V_2O_5	CR				Takei and Koide (1966)
WC	Co	TSSG/SC	~1700–	0.15	10	Gerk and Gilman (1968)
WC	Co	SC	1600–1500	60–180	5	Takahashi and Freise (1965)
WO_3	Na_3AlF_6	THM	870–780	0.5/min.		Vigdorovich and Marychev (1964)
Y-compounds see also R-						
$YAlO_3$	PbO/PbF_2	EV	1260	10 days	2	Garton and Wanklyn (1967b)
$Y_3Al_5O_{12}(Fe)$	PbO/PbF_2	SC	1200–950	5	20	Gendelev and Titova (1968)
$Y_3Al_5O_{12}(Nd)$	$PbF_2/PbO/B_2O_3$	SC	1300–950	0.4–1	15	Ashida (1968)
$Y_3Al_5O_{12}$	$BaO \times 0.6B_2O_3$	SC	1125–835	—	$1 \times 1 \times 1$	Bakradze and Kusnetsova (1969)
$Y_3Al_5O_{12}$	BaO/B_2O_3	TSSG/SC	1463–	0.5	8 g	Carlo (1973)
$Y_3Al_5O_{12}$	PbO/PbF_2	SC	1250–1000	4	10	Chase and Osmer (1969)
$Y_3Al_5O_{12}(Si)$	PbO/PbF_2	SC	1250–1000	4	~10	Chase and Osmer (1972)
$Y_3Al_5O_{12}(Nd)$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.5	150 g	Grodkiewicz *et al.* (1967)
$Y_3Al_5O_{12}(Cr)$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.25–2	—	Kestigian and Holloway (1967)
$Y_3Al_5O_{12}$	PbO/PbF_2	SC	1150–800	4.3	1.5 g	Lefever *et al.* (1961)
$Y_3Al_5O_{12}$	PbF_2/PbO	SC/EV	1150–	4.3	—	Lefever and Chase (1962)
$Y_3Al_5O_{12}$	PbO/B_2O_3	SC	1250–950	1	$10 \times 7 \times 7$	Linares (1962a)
$Y_3Al_5O_{12}$	Pb_2OF_2	SC	1260–1000	1	2.5 g	Linares (1962a)
$Y_3Al_{5-x}Ga_xO_{12}$	PbO/B_2O_3	SC	1300–	—	—	Marezio *et al.* (1968b)
$Y_3Al_5O_{12}(RE)$	PbF_2/B_2O_3	SC	1300–850	3–5	large	Monchamp *et al.* (1967)
$Y_3Al_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1290	>1	$7 \times 6 \times 6$	Timofeeva and Kvapil (1966)
$Y_3Al_5O_{12}(Nd + Cr)$	$PbO/PbF_2/B_2O_3$	SC	1300–1000		25	Timofeeva (1967, 1968)
$Y_3Al_5O_{12}(Nd)$	$PbO/PbF_2/B_2O_3$	SC	1300–950	1	60 g	Van Uitert *et al.* (1965)
YAu	Hg	CR	700–1100	—	small	Kirchmayr (1965)
$(Y, Bi)_3(Ca, Fe, Si)_5O_{12}$	$PbO/Bi_2O_3/MoO_3/B_2O_3$	SC	1320–	2.3	0.4	Schieber *et al.* (1968)
YCo	Hg	CR	700–1100	—	small	Kirchmayr (1965)
$YCrO_3$	PbF_2/B_2O_3	EV	—	—	—	Grodkiewicz and Nitti (1966)
$YCrO_3$	PbF_2	EV	1350	50 h	$8 \times 5 \times 5$	Tsushima (1967)
YCu	Hg	CR	700–1100	—	small	Kirchmayr (1965)
$Y_{3-x}Er_xFe_5O_{12}$	PbO/B_2O_3	SC	1300–1000	2	2.5	Remeika (1963)
$Y_{1-x}Eu_xVO_4$	$NaVO_3$	SC	1200–	—	—	Van Uitert *et al.* (1962)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
YFe	Hg	CR	700–1100	—	small	Kirchmayr (1965)
$YFeO_3$	$BaO/BaF_2/B_2O_3$	SC	1175–1050	1	$4 \times 3 \times 3$	Hiskes *et al.* (1972)
$YFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1300–950	0.5–1.7	—	Quon *et al.* (1971)
$YFeO_3$	PbO/B_2O_3	SC	1300–850	2	$15 \times 5 \times 5$	Remeika (1963)
$Y_3Fe_5O_{12}$	PbF_2/PbO	SC	1250–	2	9.2 g	Barry and Roberts (1961)
$Y_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC/TSSG	1200–1000	0.5	25; 57 g	Bennett (1968)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	SC	1320–950	1–2	10	Bibr *et al.* (1966)
$Y_3Fe_5O_{12}$(Si)	PbO/PbF_2	SC	1260–1010	0.65	—	Broese *et al.* (1967)
$Y_3Fe_5O_{12}$	$BaO/B_2O_3/BaF_2$	TSSG/SC	1194–	0.3	17.5	Carlo (1973)
$Y_3Fe_5O_{12}$	$PbF_2/PbO/B_2O_3$	SC	1390–	—	—	Chabria (1967)
$Y_3Fe_5O_{12}$(Si)	PbO/PbF_2	SC	1250–1000	4	~10	Chase and Osmer (1972)
$Y_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1300–900	0.5	250 g	Grodkiewicz *et al.* (1967)
$(Y, Ca)_3(Fe, Ir, Zn)_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC, ACRT	1120–1000	0.5	8	Hansen *et al.* (1973)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1250–980	0.5	$15 \times 15 \times 10$	John and Kvapil (1968)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	SC	1275–1000	1		Jonker (1974)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	TR(X), TSSG	1080	$\Delta T = 25$	$44 \times 10 \times 10$	Kestigian (1967)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1350–	1–3	—	Komatsu and Sunagawa (1964)
$Y_3Fe_{5-2x}Ni_xGe_xO_{12}$	$PbO/PbF_2/B_2O_3$	SC	1250–900	1.5–2	—	Krishnan (1966)
$Y_3Fe_5O_{12}$(Cu)	$PbO/PbF_2/B_2O_3$	SC	1220–950	1–2	—	Krishnan (1968a)
$Y_3Fe_{5-x}Cr_xO_{12}$	$PbO/PbF_2/B_2O_3$	SC	1330/1240–1000	0.5–1	6–18	Krishnan (1972)
$Y_3Fe_5O_{12}$	Na_2O/WO_3	SC	1300–	2	—	Kunnmann *et al.* (1965)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1250–1000	~1	$3 \times 3 \times 3$	Kvapil (1966)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	TR(X)	1170	$\Delta T = 40$	—	Laudise *et al.* (1962)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	SC	1180–1000	1	0.5 g	Linares (1962b)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	TR(X)	1100	$\Delta T = 50$, 1.3/day	~10	Linares (1964)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	LPE	1050	4–20 sec.	~400 Å	Linares et al. (1965)
$Y_3Fe_5O_{12}$(Al, Ga)	PbO/PbF_2	SC	1250–1000	1	—	Linares (1965a)
$Y_3Fe_5O_{12}$(Al, Ga)	PbO/B_2O_3	SC	1250–1000	1	—	Linares (1965a)
$Y_3Fe_5O_{12}$(Al, Ga)	BaO/B_2O_3	SC	1250–1000	1	—	Linares (1965a)
$Y_3Fe_5O_{12}$(Al, Ga)	BaO/B_2O_3	TR	1100	—	—	Linares (1965a)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	LPE/SC	1100–1000	25–100 Å/sec.	0.5–100 μm	Linares (1968b)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1320–950	—	—	Makram (1968)
$Y_3Fe_5O_{12}$	PbF_2/PbO	SC	1250–	3–4	10–15	Makram and Krishnan (1964, 1967)
$Y_3Fe_5O_{12}$(Ga)	$PbO/PbF_2/B_2O_3$	HPS/SC	1270–950	3–4	—	Makram *et al.* (1968)

$Y(R)_3Fe_5O_{12}$	PbO; Bi_2O_3	SC	1325–900	1	6 g	Nielsen (1958)
$Y_3Fe_5O_{12}$	PbO	SC	1350–780	1–5	—	Nielsen (1960b)
$Y_3Fe_5O_{12}$	$4PbF_2/3PbO$	SC	1260–950	0.5–5	19 g	Nielsen (1960a)
$Y_3Fe_5O_{12}$	$3PbF_2/2PbO$	SC	1260–1040	0.5	300 g	Nielsen (1964)
$Y_3Fe_{5-x}Ga_xO_{12}$	PbO/PbF_2	SC	1270–1050	~1	~20	Nielsen *et al.* (1967)
$Y_3Fe_{5-2x}Co_xGe_xO_{12}$	PbO	SC	1280–900	1.8	—	Okada *et al.* (1963)
$Y_3Fe_5O_{12}$	PbO	SC	1350–1030	2.4	—	Porter *et al.* (1958)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	SC	1300–1000	2	5	Remeika (1963)
$Y_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC/HPS	1330–1060	0.75	12	Robertson and Neate (1972)
$Y_3Fe_{5-x}In_xO_{12}$	PbO/PbF_2	SC	—	—	—	Rubinstein *et al.* (1965)
$Y_3Fe_5O_{12}$	PbF_2/PbO	SC	1280–900	—	1.8 g	Schieber (1964)
$Y_3Fe_5O_{12}$(Ca, Si, Bi)	$PbO/B_2O_3/MoO_3/Bi_2O_3$	SC	—	—	—	Schieber *et al.* (1972)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1270–950	1.8	10–14 g	Suzuishi and Ito (1967)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	SC	1350–900	4	12	Titova (1959, 1962)
$Y_3Fe_5O_{12}$	PbO/PbF_2	SC	1180–950	0.5	30, 49 g	Tolksdorf (1968)
$Y_3Fe_5O_{12}$	PbO/PbF_2	ACRT	—	—	60 × 60, 250 g	Tolksdorf (1974b)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	TSSG	1000	$\Delta T = 10°$	15 × 15 × 6	Tolksdorf (1974a)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	TSM	—	50 μm/h	3	Tolksdorf (1974a)
$Y_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	ACRT/SC	1100–1010	1	30 × 30	Tolksdorf and Welz (1972)
$Y_3Fe_{5-x}Ga_xO_{12}$	PbO/PbF_2	TR(X)/ACRT	1070		~22 × 20, 14 g	Tolksdorf and Welz (1973)
$Y_3Fe_5O_{12}$	$PbO/YF_3/B_2O_3$	SC/CR	1300–900	1	—	Watanabe *et al.* (1970)
$Y_3Ga_5O_{12}$	PbO/PbF_2	SC	1250–1000	4	7 × 7 × 5	Chase and Osmer (1967)
$Y_3Ga_5O_{12}$	PbO/PbF_2	SC	1250–1000	4	10	Chase and Osmer (1969, 1972)
$Y_3Ga_5O_{12}$	Pb_2OF_2	SC	1260–950	0.5–5	—	Nielsen (1960a)
$Y_3Ga_{4.95}Fe_{0.05}O_{12}$	PbO/B_2O_3	SC	1300–1000	2	2.5	Remeika (1963)
$Y_3Ga_5O_{12}$(Nd)	PbO/PbF_2	SC	1250–900	0.9, 1.6	0.5–2 g	Suzuishi *et al.* (1968)
$YMnO_3$	Bi_2O_3	SC	1400–	—	Platelets 50 μm	Bokov *et al.* (1964)
$YMnO_3$	Bi_2O_3	SC	1200–	3	—	Kohn and Tasaki (1965)
YN	Hg	CR/SC	320	—	small	Busch *et al.* (1970)
YNi	Hg	CR	700–1100	—	small	Kirchmayr (1965)
YOF	PbF_2	SC	1340–900	3	3 × 2	Garton and Wanklyn (1968)
Y_2O_3	PbF_2	SC	1200–900	3	5	Hart and White, see White (1966)
Y_2SiO_5	$Li_2Mo_2O_7$	—	1100	—	—	Harris and Finch (1965)
Y_2SiO_5, $Y_4Si_3O_{12}$	KF	SC	1300–850	1–2.5	4 × 3 × 2	Bondar *et al.* (1968)
$Y_2Ti_2O_7$	$TiO_2/BaO/B_2O_3$	TSSG/SC	1330–	0.5	14 g	Belruss *et al.* (1971)
YVO_4	V_2O_5	SC	1200–900	3	2	Hart and White, see White (1966)
YVO_4	V_2O_5	TSSG/SC	1050–900	50 μm/h	15 × 6	Loriers and Vichr (1972)
YVO_4	$NaVO_3/Na_2B_4O_7$	TR(X)	—	4 days	15 × 3 × 3	Phillips and Pressley (1967)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
YWO_4Cl	YCl_3	SC	900–700	3	0.4	Yocom and Smith (1973)
Yb-compounds see also R-						
YbB_6	B_2O_3(?)	VLS	—	—	0.6	Rea and Kostiner (1971)
$YbCrO_3$	$PbF_2/B_2O_3/PbO_2$	EV	1260	9 days	$3 \times 3 \times 2$	Wanklyn (1972)
$YbFeO_3$	$PbF_2/PbO/B_2O_3$	SC	1300–1100	3	12×9	Damen and Robertson (1972)
$YbFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1250–900	4	$30 \times 15 \times 3$	Feigelson (1971)
$YbFeO_3$	$PbO/PbF_2/B_2O_3$	SC/EV	1300–950	0.5	—	Quon *et al.* (1971)
$Yb_3Fe_5O_{12}$	PbO/B_2O_3	SC	1300–1000	2	2.5	Remeika (1963)
$Yb_3Fe_2Ga_3O_{12}$	PbO/PbF_2	SC	1280–900		0.4 g	Schieber (1967)
$Yb_3(Fe, Ga)_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1180–	2.3	3	Schieber *et al.* (1968)
$Yb_3Fe_5O_{12}$(Ca, Si)	$PbO/MoO_3/B_2O_3/Bi_2O_3$	SC	—	—	—	Schieber *et al.* (1972b)
$Yb_3Ga_5O_{12}$	PbO/B_2O_3	SC	1280–900		60 mg	Schieber (1967)
YbOCl	$YbCl_3$	SC	1050–	8	$1 \times 1 \times 0.1$	Brandt and Diehl (1974)
$Yb_2Si_2O_7$	KF	SC	1300–850	1–2.5	$4 \times 3 \times 2$	Bondar *et al.* (1968)
$Yb_3Si_2O_8Cl$	$YbCl_3$	SC	1050–	8	$1.5 \times 1.5 \times 0.5$	Diehl and Brandt (1974)
$ZnAl_2O_4$	$PbF_2/PbO/SiO_2/B_2O_3$	SC	1350–700	0.5–2	12	Bonner and Van Uitert (1968)
$Zn(Al, Ga)_2O_4$	$PbF_2/Bi_2O_3/B_2O_3$	SC	1250–1000	4	$7 \times 7 \times 5$	Chase and Osmer (1967)
$ZnAl_2O_4$	PbF_2	SC	1250→	1–2	10	Giess (1964)
$ZnAl_2O_4$	Pb_2OF_2	SC	1260–1000	3	$3 \times 3 \times 3$	Linares (1962c)
$ZnAl_2O_4$(Mn)	PbF_2	EV	1200	24 h	$1 \times 1 \times 1$	Tsushima (1966)
$Zn_2Ba_2Fe_{12}O_{22}$	$Ba_2B_2O_5$	TSSG/TR	1000	$\Delta T = 10°$	$\sim 20 \times 16 \times 4$	Tolksdorf (1973)
$ZnCr_2O_4$	Na_2O/WO_3	SC	1250–	5	—	Kunnmann *et al.* (1965)
$ZnCr_2Se_4$	$CrCl_3$	VLRS	950–900	—	3	Miyatani *et al.* (1968)
$ZnCr_2Se_4$	$CrCl_3$	VLRS	950–900	—	8	Von Neida and Shick (1969)
$ZnFe_2O_4$	$BaO/Bi_2O_3/B_2O_3$	SC	1320–1150	1	10	Elwell *et al.* (1972)
$ZnFe_2O_4$	PbO	SC	1300–	~ 5	<10	Remeika (1958b)
$ZnGeP_2$	Sn	SC	1100–600	4–16	small	Mughal *et al.* (1969)
$ZnGeP_2$	Bi	SC	—	—	$6 \times 1 \times 0.5$	Samogyi and Bertoti (1972)
$ZnGeP_2$	Sn	SC	-750	—	—	Spring-Thorpe and Pamplin (1968)
$ZnMn_2O_4$, $Zn_{1.25}Mn_{1.75}O_4$	$NaKSO_4$	CR	~ 1000	20 h	small	Petzold *et al.* (1971)
$ZnMn_2O_4$	PbF_2	EV	1100	120 h	$2 \times 2 \times 2$	Tsushima (1967)
ZnO	PbF_2	SC	1250–900	4	$12 \times 10 \times 7$	Chase and Osmer (1967)
ZnO	PbF_2	TR	900	3.5/day	—	Giess (1964)

ZnO	PbF_2	SC	1000–	5.4	small	Kleber and Mlodoch (1966)
ZnO	PbF_2	SC	1150–800	1–10	30 × 30	Nielsen and Dearborn (1960)
ZnO	PbF_2	SC	1160–	—	10 × 10 × 1	Timofeeva (1968)
ZnO	V_2O_5, P_2O_5	SC	1330–980	1	20 × 0.3	Wanklyn (1970)
$ZnRh_2O_4$	PbO	SC	1330–880	3.5	1.5 × 1.5 × 1.5	Arlett (1968)
ZnS	Ga	SC	—	—	—	Bertoti *et al.* (1965)
ZnS	Ga, In, Sn, Tl	SC	1180	38	∼5 × 0.2	Harsy (1967, 1968)
ZnS	ZnF_2	SC	1000–800	1	12 × 6 × 0.9	Linares (1962d)
ZnS	$PbCl_2$	SC/TR	800–500	1–10	5 × 5 × 1.2	Linares (1968a)
ZnS	NaCl	EV/SC	1070–1040	10–20	10 × 0.2 × 0.2	Mita (1961)
ZnS	KCl, etc.	SC	1200–900	2–10	10 × 1 × 1	Mita (1962)
ZnS	KCl, KJ/$ZnCl_2$	TR	845	30 days	10	Parker and Pinnell (1968)
ZnS	Bi, Sn	SC	—	—	∼4	Rubenstein (1968)
ZnS	Na_2S_x	CR/SC/EV	600–300	∼25	1 × 1 × 1	Scheel (1974)
ZnSb	Sb	SC	546–505	1	—	Eisner *et al.* (1961)
ZnSb	Sb	TR	560–575	0.3 μm/sec.	—	Eisner *et al.* (1961)
$Zn_7Sb_2O_{12}$	PbF_2	SC	1150–800	1–5	6	Linares and Mills (1962)
ZnSe	Zn	SC	950–	1.3	small	Faust and John (1964)
ZnSe	Ga, In	SC	∼1200–	∼20	∼1	Harsy (1968)
ZnSe	Bi, Sn	SC	—	—	∼4	Rubenstein (1968)
ZnSe	Ga, In	SC	—	4	3.5	Wagner and Lorenz (1966)
$ZnSe_xTe_{1-x}$	Te	TSM	500	1–5 days	35 × 20 × 10	Steininger and England (1968)
$ZnSiAs_2$	Sn	SC	1000–	5	1	Gentile and Stafsudd (1974)
$ZnSiAs_2$	Sn	SC	–750	—	—	Spring-Thorpe and Pamplin (1968)
$ZnSiP_2$	Bi, Sb, Sn	SC		20	25 × 3.5	Borshchevskii *et al.* (1967)
$ZnSiP_2$	Sn	SC	1300–		∼2	Buehler and Wernick (1971)
$ZnSiP_2$	Sn	SC	1100–600	4–16	25 × 5 × 2	Mughal *et al.* (1969)
$ZnSiP_2$	Sn	SC	1120–680	7.5	17 × 2.5 × 0.3	Mughal and Ray (1973)
$ZnSiP_2$	Sn	SC	–750	—	10	Spring-Thorpe and Pamplin (1968)
$ZnSnAs_2$	Sn	SC	800–	1.3	small	Faust and John (1964)
$ZnSnAs_2$	Sn	SC	1000–	5	1	Gentile and Stafsudd (1974)
$ZnSnP_2$	Sn	SC	870–	—	3 × 1.5 × 0.5	Loshakova *et al.* (1966)
$ZnSnP_2$	Sn	SC	910–350	60	small	Mughal *et al.* (1969)
$ZnSnP_2$	Sn	SC	900–600	10	4 × 4 × 0.3	Rubenstein and Ure (1968)
$ZnSnP_2$	Sn	SC	–750	—	4 × 4 × 0.5	Spring-Thorpe and Pamplin (1968)
$ZnSnSb_2$	Sn	SC	∼350–250	3–100	—	Goryunova *et al.* (1968b)
ZnTe	Bi	LPE/SC	800–600	30–150	30 μm	Fujita *et al.* (1971)
ZnTe	Zn	SC	1200–500	12–60	4 × 4 × 0.2	Fuke *et al.* (1971)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
ZnTe	Te	TR	900	10°/cm	3 × 3 × 3	Fuke *et al.* (1971)
ZnTe	Ga	SC	~1200–	~20	~1	Harsy (1968)
ZnTe	Bi, Sn, Zn	SC	—	—	~4	Rubenstein (1968)
ZnTe	In	LPE/SC	500–480	120	10 μm	Tamura *et al.* (1971)
ZnTe	Ga, In	SC	—	4	3.5	Wagner and Lorenz (1966)
ZnV_2O_6	KCl	HPS	1030	45 kb, 1 h	0.1	Gondrand *et al.* (1974)
$ZnWO_4$	$Na_2W_2O_7$	SC	1000–	—	small	Schultze *et al.* (1967)
$ZnWO_4$	$Na_2W_2O_7$	SC	1100–1250–700	2.5	10 × 5 × 5	Van Uitert and Soden (1960)
ZrB_2	Fe	SC	1700–1400	5	~3	Nakano *et al.* (1971)
ZrO_2	PbF_2	EV/SC	—	—	—	Anthony and Vutien (1965)
ZrO_2	PbF_2	SC	1040–800	3	8 × 5 × 1	Chase and Osmer (1966b)
ZrO_2	PbF_2	SC	1040–800	4	4 × 4 × 1	Chase and Osmer (1967)
ZrO_2	$Na_2B_4O_7$/KF	SC	—	—	3	Fujiki and Ono (1972)
ZrO_2	$Na_2B_4O_7$	EV	1120	2–4	5–8	Harari *et al.* (1967)
ZrO_2	$Na_2B_4O_7$	SC	1250–	5	1	Kleber *et al.* (1966)
ZrO_2	Na_2O/B_2O_3	SC	1450–930	3	25	Russel *et al.* (1962)
ZrO_2	Na_2SO_4	CR/SC	~1000	50–80	small	Wilke (1964)
$ZrSiO_4$	$Li_2Mo_3O_{10}$, $Na_2Mo_3O_{10}$	SC	1400–900	2	—	Ballman and Laudise (1965)
$ZrSiO_4$	$Na_2Mo_3O_{10}$	TR	900–1000	$\Delta T = 40$–80	2 mm/day	Ballman and Laudise (1965)
$ZrSiO_4$	Li_2O/MoO_3	SC	1250–1000	2	2–7	Chase and Osmer (1966a)
$ZrSiO_4$	Li_2O/WO_3	SC	1374–969	2.3	3 × 3 × 3	Dharmarajam *et al.* (1972)
$ZrSiO_4$	Li_2O/V_2O_5	SC	1366–907	1.3	4	Dharmarajam *et al.* (1972)

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Appendix to Chapter 10

Abbreviations used:

ACRT – Accelerated crucible rotation technique
CR – Chemical reaction
EL – Electrolysis
EV – Evaporation
HPS – High-pressure solution growth
LPE – Liquid phase epitaxy
SC – Slow cooling
THM – Travelling heater method
TR – (Gradient) transport
TSM – Travelling solvent method
TSSG – Top-seeded solution growth
VLS – Vapour-liquid-solid
VLR S – Vapour-liquid-reaction-solid
X – Seed crystal

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
Ag_3AsS_3	silicone oil	SC	250	—	0.01–2	Weil *et al.* (1954)
Al_2O_3	Na_3AlF_6	TR/X	1120–1000	50–200 h	20 × 20 × 5	Watanabe and Sumiyoshi (1974)
As_4S_4	silicone oil	SC	250	—	0.01–2	Weil *et al.* (1954)
Ba_2CoWO_6	$BaCl_2$	SC(?)	—	0.5	small	Voorhoeve *et al.* (1974)
Ba_2FeNbO_6	$BaCl_2$	SC(?)	—	0.5	small	Voorhoeve *et al.* (1974)
$BaFe_{12}O_{19}$	NaCl/KCl	CR/SC	1000–1050	30 min.	<1 μm	Arendt (1973)
$Ba_xSr_{1-x}Nb_2O_6$	$BaO/SrO/B_2O_3$	SC	1350–700	1	2–6 mm	Whipps (1972)
$BaMoO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
Ba_2NiTeO_6	$BaCl_2$	SC	1150–800	5	small prism	Köhl *et al.* (1972)
$BaTiO_3(Sr)$	KF	SC				Goulpeau *et al.* (1973)
$Ba_2TiSi_2O_8$	TiO_2	SC	1425–1000	3	5	Robbins (1970)
$BaWO_4$	LiCl/NaCl	EV	950–670	140 h	~5 × 4 × 1	Patel and Arora (1974)
$BaWO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
$BaWO_4$	NaCl, KCl	SC	950–650	2–50	~3	Voigt and Neels (1971)
$BeAl_2O_4$	$PbO/PbF_2/B_2O_3$	SC	1270–800	3	~10 × 3 × 1	Tabata *et al.* (1974)
$Be_3Al_2Si_6O_{18}(Cr)$	V_2O_5 etc.	TR/X	1050	$\Delta T = 1$–42	~5	Ushio and Sumiyoshi (1972)
$Be_3Al_2Si_6O_{18}(Cr)$	V_2O_5	TR/X	1050	$\Delta T \sim 15°$	~10	Ushio and Sumiyoshi (1973a)
$Bi_{40}Fe_2O_{63}$	Bi_2O_3	TSSG/SC	~780	0.5	15 × 10 × 10	Bruton *et al.* (1974)
$Bi_{40}Ga_2O_{63}$	Bi_2O_3	TSSG/SC	—	—	15 × 15 × 10	Bruton *et al.* (1974)
$Bi_{12}TiO_{20}$	Bi_2O_3	TSSG/SC	~860	0.5	~100 g	Bruton *et al.* (1974)
$Bi_4Ti_3O_{12}$	Bi_2O_3	SC	1150–850	0.88	70 × 70 × 1	Morrison *et al.* (1970)
$Bi_{12}TiO_{20}$	Bi_2O_3	SC	110–850	0.75	15 × 10 × 4	Morrison (1971)
Ca_2BO_3Cl	$CaCl_2$	SC	820–	2–5	<20	Majling *et al.* (1974)
$CaCO_3$	Li_2CO_3	TSSG/HPS	~900°	—	~10 × 10	Balascio and White (1974)
$CaFe_xMn_{1-x}O_3$	$CaCl_2$	SC	1280–900	5–10	3 × 3 × 3	Banks *et al.* (1972)
$CaMoO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
$Ca_3Sc_2Ge_3O_{12}$	$Pb_2V_2O_7$	SC	1250–1000	—	—	Havlicek *et al.* (1974)
$CaWO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
$CaWO_4$	NaCl, KCl	SC	950–650	2–50	~3	Voigt and Neels (1971)
$CdSnP_2$	Sn	LPE			—	Bachmann *et al.* (1974)
$CdSnP_2$	Sn	LPE/SC	510–	10	—	Shay *et al.* (1974)
CdTe	Te, $CdCl_2$	THM	675	7 mm/day	—	Taguchi *et al.* (1974)
CoP_2	Ge	CR/HPS	800–1200	65 kb	small	Donohue (1972)

Cr	NaCl/KCl	EL	—	—	small	Sugaya and Watanabe (1971)
$Cs_2Pt_4S_6$	Cs_2CO_3	SC	—	—	small	Rüdorff *et al.* (1968)
$DyAlO_3$	PbO/PbF_2	SC/EV	1290–	—	1	Flicstein and Schieber (1973)
$Dy_3Al_5O_{12}$	PbO/PbF_2	SC/EV	1290–	—	2	Flicstein and Schieber (1973)
Dy_2SiO_5	PbF_2	VLS/SC	1280–	—	3×3	Wanklyn and Hauptman (1974)
Dy_4SiO_8	PbF_2	VLS/SC	1280–	—	10×1	Wanklyn and Hauptman (1974)
$DyVO_4$	$Pb_2V_2O_7$	TSSG/TR	1200	$\Delta T = 2$–5/cm	$6 \times 3 \times 3$	Smith *et al.* (1974)
$Er_3Fe_5O_{12}$	PbF_2/BaF_2	SC	1300–900	4–5	—	Perekalina *et al.* (1972)
Er_2SiO_5	PbF_2/PbO	VLS/SC	1285–	—	—	Wanklyn and Hauptman (1974)
$(Eu, Y)_3Fe_5O_{12}$	PbO/B_2O_3	LPE	738–830	—	0.19–0.58 μm/min.	Plaskett *et al.* (1973)
EuS	LiCl/KCl	SC/CR	500	—	1×0.2	Koutaissoff (1964)
GaAs	Ga	LPE/SC	725–	30–120	—	Rosztocy and Kinoshita (1974)
$GaAs_{1-x}P_x$	Ga	VLS/TSM	950–1150	$\Delta T \sim 8$–40/cm	$28 \times 20 \times 20$	Saito and Seki (1974)
$GaAs_{1-x}Sb_x(Al)$	Ga	LPE/SC	760–700	60	10–15 μm	Antypas and Moon (1974)
$Ga_xIn_{1-x}Sb$	In	LPE/SC	410–280	10–200	—	Joullié *et al.* (1974)
GaP	Ga	VLRS	1330–1024	$\Delta T = 7$–46	0.1–0.7 mm/day	Kaneko *et al.* (1973)
$(Gd, Y, Yb)_3(Fe, Ga)_5O_{12}$	$BaO/B_2O_3/BaF_2$	LPE	~ 1000	—	0.1–0.5 μm/min.	Hiskes and Burmeister (1973)
$Gd_{0.19}WO_3$	$RCl_3 + WO_3$	EL	1200	<60 mA	10	Collins and Ostertag (1966)
HfB_2	Fe	SC	1720–	5	2×2	Nakano *et al.* (1974)
$In_{1-x}Ga_xP$	In	LPE/TR	800	$\Delta T \sim 10$	50–75 μm	Macksey *et al.* (1973)
InP	In	LPE/SC	720–560	6–13	5–120 μm	Hess *et al.* (1974)
IrS_2	K_2CO_3	SC	—	—	small	Rüdorff *et al.* (1968)
$K_9Bi_3Zn_2Nb_{10}O_{36}$	Bi_2O_3	SC	1130–800	5–10	<10	Nomura and Kojima (1973)
$KNbO_3$	K_2CO_3	TSSG/SC	—	0.5	$30 \times 30 \times 5$	Fukuda *et al.* (1974)
$KNb_{1-x}Ta_xO_3$	K_2CO_3	TSSG/TR	1100	$\Delta T \sim 0$–9	14×14	Whiffin and Brice (1974)
$K_2Pd_3PtS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_2Pd_3SnS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_2Pd_3TiS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_2Pt_4S_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_2Pt_3IrS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_2Pt_3SnS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)

Crystal	Solvent	Technique	Temp. range	Cooling rate duration	Crystal size (mm)	Reference
$K_2Pt_3TiS_6$	K_2CO_3	SC			small	Rüdorff *et al.* (1968)
$K_{1-x}SbO_{3-x}F_x$	KF	EV	900–1000	1 h	0.5 mm	Brower *et al.* (1974)
LaB_6	Al	SC	1500–	30	1	Aita *et al.* (1974)
LaP_5O_{14}	$H_4P_2O_7$	EV	750	—	10 × 3	Miller *et al.* (1974)
$LiFe_5O_8$(Ru)	PbO/B_2O_3	SC	1050–600	1	—	Jonker (1974)
Li_2MgSiO_4	Li_2MoO_4	SC	1420–900	3.3–7.6	8 × 8 × 1	Setoguchi and Sakamoto (1974)
Li_2ZnSiO_4	Li_2MoO_4	SC	1420–900	3.3–7.6	2.5 × 2.5	Setoguchi and Sakamoto (1974)
$Mg_{8.5}As_3O_{16}$	PbO/As_2O_5	SC	1225–600	8	—	Bless and Kostiner (1973)
$MgFeBO_4$	$Na_2B_4O_7$	SC	—	—	small	Mikov *et al.* (1973)
$Mg_2SiO_4.MgF_2$	PbF_2	VLS/SC	1280–	—	6	Wanklyn and Hauptman (1974)
MnB_4O_7	Bi_2O_3/B_2O_3	SC	1060–600	1.5	2	Abrahams *et al.* (1974)
MnBi	Bi	TSSG	435°, <355°	—	~60 × 4 × 4	Chen (1974)
MnSi	Cu	SC	1200–500	10	2	Johnson *et al.* (1973)
$NaNbO_3$	$NaBO_2$	TSSG/TR	1105	$\Delta T \sim 6$–36	160–400 Å s^{-1}	Dawson *et al.* (1974)
$Nb_2Zr_6O_{17}$	BaO/V_2O_5	SC	1200–	—	small	Galy and Roth (1973)
NdP_5O_{14}	H_3PO_4, $H_4P_2O_7$	EV	550	7 days	3 × 3 × 1	Danielmeyer *et al.* (1974)
NdP_5O_{14}	$H_4P_2O_7$	EV	750	—	5 × 1	Miller *et al.* (1974)
Ni_2FeBO_5	$Na_2B_4O_7$	SC	—	—	small	Mikov *et al.* (1973)
$PbTiO_3$	PbO/B_2O_3	SC	1000–800	20	12 × 12 × 1	Fesenko *et al.* (1972)
$R_3Al_5O_{12}$	PbF_2/PbO	VLS/SC	1280–1150	1	—	Wanklyn and Garton (1974)
$RCrO_3$	PbF_2/Bi_2O_3	EV	1230	—	—	Subba Rao *et al.* (1971)
$RFeO_3$	$PbO/PbF_2/B_2O_3$	SC	1280–950	1.25–5	—	Akaba (1974)
R_2MoO_6	PbF_2/PbO	SC	1270–1160	0.7	5 × 2	Wanklyn (1974)
$Rb_2Pt_4S_6$	Rb_2CO_3	SC	—	—	small	Rüdorff *et al.* (1968)
$Rb_2Pt_3SnS_6$	Rb_2CO_3	SC	—	—	small	Rüdorff *et al.* (1968)
$Sm_{0.09}WO_3$	$SmCl_3 + WO_3$	EL	1200	<60 mA	5	Collins and Ostertag (1966)
$SrBi_2Ta_2O_9$(Ba)	Bi_2O_3	SC	1250–900	2	1 × 1 × 0.05	Newnham *et al.* (1973)
$SrFe_xMn_{1-x}O_3$	$SrCl_2$	SC	1330–900	5–10	1 × 1 × 1	Banks *et al.* (1972)
$SrFe_{12}O_{19}$	NaCl/KCl	CR/SC	1000–1050	30 min.	<1 μm	Arendt (1973)

$SrMoO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
$SrTiO_3$	KF	SC	1000–	3–4	~10	Kojima and Kochi (1968)
$SrWO_4$	LiCl/NaCl	EV	950–730	40–100 h	~4 × 3 × 3	Patel and Arora (1974)
$SrWO_4$	LiCl/KCl	SC	—	—	<10	Potkin (1972)
$SrWO_4$	NaCl, KCl	SC	950–650	2–50	~3	Voigt and Neels (1971)
$TbVO_4$	$Pb_2V_2O_7$	TSSG/TR	1200	$\Delta T \sim 2$–5/cm	~3 × 3 × 3	Smith *et al.* (1974)
TiB_2	Fe, Co, Ni	SC	1700–1600	5	5 × 5	Nakano *et al.* (1974)
$TmVO_4$	$Pb_2V_2O_7$	TSSG/TR	1200	$\Delta T \sim 2$–5/cm	~6 × 4 × 4	Smith *et al.* (1974)
$Tm_{0.1}WO_3$	$TmCl_3 + WO_3$	EL	1200	<60 mA/cm^2	few	Collins and Ostertag (1966)
$Y_3Al_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1250–	2	3–10	Komatsu *et al.* (1974)
$Y_3Al_{5-x}Cr_xO_{12}$	$PbO/PbF_2/B_2O_3$	SC	1350–1050	—	—	Takasu and Shimanuki (1974)
$Y_3Fe_5O_{12}$	BaO/B_2O_3	LPE	1058	—	—	Davies and White (1974)
$Y_3Fe_5O_{12}$(Ca, Te)		HPS/SC				Dominé-Bergès *et al.* (1973)
$Y_3Fe_5O_{12}$	$PbO/PbF_2/B_2O_3$	SC	1160–960	0.3–1.4	50 g	Görnert and Hergt (1973)
$Y_3Fe_5O_{12}$	PbO/B_2O_3	TR	965	$\Delta T \sim 5$	—	Görnert and Hergt (1973)
$Y_3Fe_5O_{12}$	$PbO.O.2B_2O_3$	SC/ACRT	1250–1200	0.4	10 × 10 × 10	Jonker (1975)
$Y_3Fe_5O_{12}$(Pb, Si)	PbO/B_2O_3	LPE	960–780	—	~5 μm	Larsen and Robertson (1974)
$Y_3Fe_5O_{12}$(Sm, Ga)	PbO/B_2O_3	HPS/SC	1300–950	3	—	Mroczkowski (1974)
$Y_3Fe_5O_{12}$(Bi)	BaO/B_2O_3	LPE	1020–980	—	—	Robertson *et al.* (1973)
$Y_3Fe_5O_{12}$(La, Ga)	PbO/B_2O_3	LPE	965	$\Delta T \sim 10$	20 × 20 × 5 μm	Robertson *et al.* (1975)
(Y, R)$_3$(Fe, Ga)$_5O_{12}$	$BaO/BaF_2/B_2O_3$	LPE	1050	—	—	Suemune and Inone (1974)
$Y_3Fe_5O_{12}$	review	—	—	—	—	Tolksdorf (1974)
$Y_2Pt_2O_7$	PbO/PbO_2	HPS/SC	1290–950	1.5	6	Ostorero and Makram (1974)
ZnO	KOH	TR	480	—	needles	Kashyap (1973)
ZnO	$Na_2B_4O_7$	TSSG	—	—	2	Nevyantseva *et al.* (1969)
ZnS	$BaZnS_3$	SC	1300–		3	Malur (1966)
$ZnSnSb_2$	Sn	SC	427–360	0.44	—	Scott (1973)
ZnTe	Bi, Zn	LPE/SC	1050–	30–300	—	Fujita *et al.* (1973)
ZrB_2	Fe	SC	1700–	5	2	Nakano *et al.* (1974)
ZrO_2	PbF_2, V_2O_5	TR/EV	1050, 1010	$\Delta T = 40$, 50	5 × 5 × 2	Fujiki and Suzuki (1974)
ZrO_2	PbF_2	TR/EV	970	$\Delta T \sim 50$	5 × 3 × 1	Fujiki *et al.* (1972)
ZrO_2	Na_3AlF_6	SC/EV	1080–	1–10	~1	Ushio and Sumiyoshi (1973b)

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