14 outliers of SSSP-precision v1.1.2 found from the previous run of ACWF-QE-SSSP.
The newly released v1.2-precision has the pseudopotentials updated with selecting from other libraries.
The outlier pseudos are (Te, Na, Cu, Cs, Cd, Ba, As, Hg, I, Ne, Ar, Kr, Xe, Rn).

Latest ACWF runs by Marnik with new pseudos I provide. (Note: psl for PSlibrary)

element	SSSP-precision-v1.1.2	SSSP-precision-v1.2
Te	z_6|Ultrasoft|GBRV|uspp|v1	z_6|Ultrasoft|psl|ld1|v1.0.0-low
Na	z_9|NC|dojo|oncvpsp3|v4-std	z_9|PAW|psl|ld1|v1.0.0-low
Cu	z_19|NC|dojo|oncvpsp3|v4-std	z_11|PAW|psl|ld1|v1.0.0-low
Cs	z_9|Ultrasoft|GBRV|uspp|v1	z_9|NC|dojo|oncvpsp3|v4-str
Cd	z_12|Ultrasoft|psl|ld1|v0.3.1	z_20|PAW|psl|ld1|v1.0.0-high
Ba	z_10|PAW|psl|ld1|v1.0.0-high	z_10|NC|dojo|oncvpsp4|v4-sp
As	z_5|Ultrasoft|psl|ld1|v0.2	z_15|NC|dojo|oncvpsp3|v4-std
I	z_17|PAW|psl|ld1|v1.0.0-high	z_17|NC|dojo|oncvpsp3|v4-std
Hg	z_20|NC|SG15|oncvpsp3|v0	z_12|Ultrasoft|gbrv|uspp|v1
Ne	z_8|NC|sg15|oncvpsp4|v0	z_8|PAW|psl|ld1|v1.0.0-high
Ar	z_8|NC|sg15|oncvpsp4|v0	z_8|PAW|psl|ld1|v1.0.0-high
Kr	z_8|NC|sg15|oncvpsp4|v0	z_18|PAW|psl|ld1|v1.0.0-high
Xe	z_18|NC|sg15|oncvpsp4|v0	z_18|PAW|psl|ld1|v1.0.0-high
Rn	z_18|NC|sg15|oncvpsp4|v0	z_18|PAW|psl|ld1|v1.0.0-high

Benchmark: SsspApp gallery display

Tellurium

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_16|NC|dojo|oncvpsp3|v4-std	0.569	1.016	3.194	0.643	0.262	0.225	1.215	1.408	0.776	0.366	0.286	z_16
1	z_16|NC|sg15|oncvpsp4|v0	0.618	1.020	2.626	0.670	0.260	0.226	1.322	1.503	0.869	0.441	0.318	z_16
2	z_24|NC|dojo|oncvpsp3|v4-str	0.497	0.600	1.613	0.640	0.169	0.151	1.620	1.355	1.424	0.875	0.451	z_24
3	z_16|PAW|psl|ld1|v1.0.0-high	0.882	1.321	3.871	0.958	0.359	0.287	2.008	2.303	1.362	0.699	0.451	z_16
4	z_6|PAW|psl|ld1|v1.0.0-low	0.235	0.467	3.252	0.283	0.116	0.122	0.458	0.620	0.460	0.144	0.094	z_6
5	z_16|Ultrasoft|psl|ld1|v1.0.0-high	0.883	1.331	4.106	0.969	0.362	0.289	2.063	2.368	1.417	0.701	0.471	z_16
6	z_6|Ultrasoft|psl|ld1|v1.0.0-low	0.274	0.435	3.556	0.319	0.114	0.112	0.595	0.781	0.488	0.193	0.207	z_6
7	z_6|Ultrasoft|gbrv|uspp|v1	1.169	2.625	10.003	0.964	0.651	0.524	1.147	1.318	1.859	0.322	0.229	z_6

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_16|NC|dojo|oncvpsp3|v4-std	60 Ry (3.5)	35 Ry (4.0)	70 Ry (2.5)	65 Ry (3.0)	50 Ry (2.5)	z_16
1	z_16|NC|sg15|oncvpsp4|v0	45 Ry (3.5)	45 Ry (3.5)	55 Ry (2.5)	75 Ry (3.5)	35 Ry (2.0)	z_16
2	z_24|NC|dojo|oncvpsp3|v4-str	80 Ry (3.5)	50 Ry (4.0)	100 Ry (2.5)	90 Ry (3.0)	90 Ry (2.0)	z_24
3	z_16|PAW|psl|ld1|v1.0.0-high	70 Ry (6.0)	30 Ry (6.0)	75 Ry (6.0)	120 Ry (6.0)	30 Ry (6.0)	z_16
4	z_6|PAW|psl|ld1|v1.0.0-low	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_6
5	z_16|Ultrasoft|psl|ld1|v1.0.0-high	70 Ry (8.0)	30 Ry (6.0)	75 Ry (6.0)	120 Ry (6.0)	35 Ry (6.0)	z_16
6	z_6|Ultrasoft|psl|ld1|v1.0.0-low	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	35 Ry (6.0)	30 Ry (6.0)	z_6
7	z_6|Ultrasoft|gbrv|uspp|v1	200 Ry (7.5)	30 Ry (6.0)	30 Ry (6.0)	200 Ry (6.0)	30 Ry (8.0)	z_6

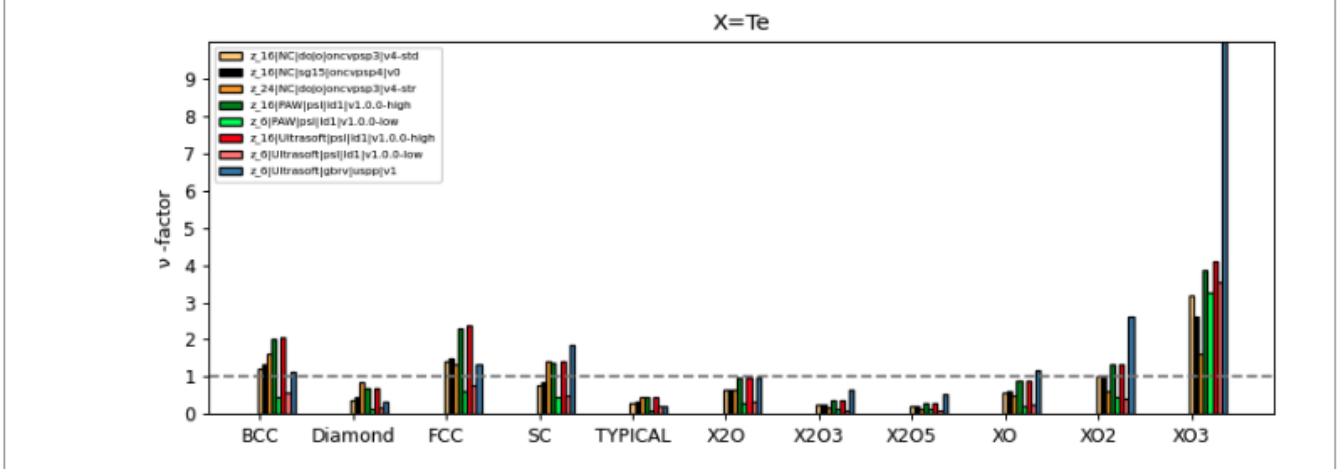
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Na (Sodium)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_9|NC|dojo|oncvpsp3|v4-std	0.571	0.293	0.626	0.355	0.072	0.025	0.285	0.484	0.596	0.478	1.219	z_9
1	z_9|NC|sg15|oncvpsp4|v0	1.197	0.915	1.285	0.945	0.307	0.076	0.504	0.599	0.671	0.421	1.214	z_9
2	z_9|PAW|jth|atompaw|v1.1-std	2.227	1.545	1.807	1.594	0.486	0.166	0.774	0.794	0.886	0.298	1.126	z_9
3	z_9|PAW|psl|ld1|v0.2	0.264	0.132	0.585	0.042	0.027	0.036	0.047	0.037	0.119	0.080	1.378	z_9
4	z_9|PAW|psl|ld1|v1.0.0-high	0.762	0.443	0.699	0.518	0.119	0.031	1.060	1.085	1.338	0.542	1.027	z_9
5	z_9|PAW|psl|ld1|v1.0.0-low	0.299	0.161	0.580	0.149	0.022	0.034	0.083	0.060	0.083	0.095	1.391	z_9
6	z_9|Ultrasoft|psl|ld1|v0.2	0.929	0.574	0.861	0.706	0.175	0.036	0.606	0.622	0.865	0.098	1.183	z_9
7	z_9|Ultrasoft|psl|ld1|v1.0.0-high	0.855	0.472	0.711	0.564	0.129	0.034	1.231	1.456	1.641	0.993	0.914	z_9
8	z_9|Ultrasoft|psl|ld1|v1.0.0-low	0.370	0.178	0.583	0.187	0.028	0.031	0.109	0.301	0.358	0.372	1.279	z_9
9	z_9|Ultrasoft|gbrv|uspp|v1.5	1.875	1.440	1.519	1.153	0.440	0.163	0.441	0.541	0.653	0.330	1.200	z_9

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_9|NC|dojo|oncvpsp3|v4-std	70 Ry (3.0)	35 Ry (4.0)	90 Ry (2.5)	90 Ry (3.5)	70 Ry (2.5)	z_9
1	z_9|NC|sg15|oncvpsp4|v0	40 Ry (3.0)	30 Ry (3.0)	90 Ry (2.0)	60 Ry (3.5)	40 Ry (4.0)	z_9
2	z_9|PAW|jth|atompaw|v1.1-std	100 Ry (6.5)	30 Ry (6.0)	120 Ry (6.0)	120 Ry (6.0)	30 Ry (6.0)	z_9
3	z_9|PAW|psl|ld1|v0.2	50 Ry (6.0)	30 Ry (6.0)	55 Ry (6.0)	55 Ry (6.0)	30 Ry (8.0)	z_9
4	z_9|PAW|psl|ld1|v1.0.0-high	70 Ry (8.0)	30 Ry (6.0)	150 Ry (6.0)	90 Ry (6.0)	45 Ry (6.0)	z_9
5	z_9|PAW|psl|ld1|v1.0.0-low	70 Ry (8.0)	30 Ry (6.0)	150 Ry (6.0)	75 Ry (7.0)	45 Ry (6.0)	z_9
6	z_9|Ultrasoft|psl|ld1|v0.2	50 Ry (6.0)	30 Ry (6.0)	55 Ry (6.0)	50 Ry (6.0)	30 Ry (6.0)	z_9
7	z_9|Ultrasoft|psl|ld1|v1.0.0-high	70 Ry (8.0)	30 Ry (6.0)	150 Ry (6.0)	65 Ry (7.0)	45 Ry (6.0)	z_9
8	z_9|Ultrasoft|psl|ld1|v1.0.0-low	70 Ry (8.0)	30 Ry (6.0)	150 Ry (6.0)	75 Ry (7.0)	45 Ry (6.0)	z_9
9	z_9|Ultrasoft|gbrv|uspp|v1.5	35 Ry (6.0)	30 Ry (6.0)	40 Ry (6.0)	50 Ry (7.5)	30 Ry (6.0)	z_9

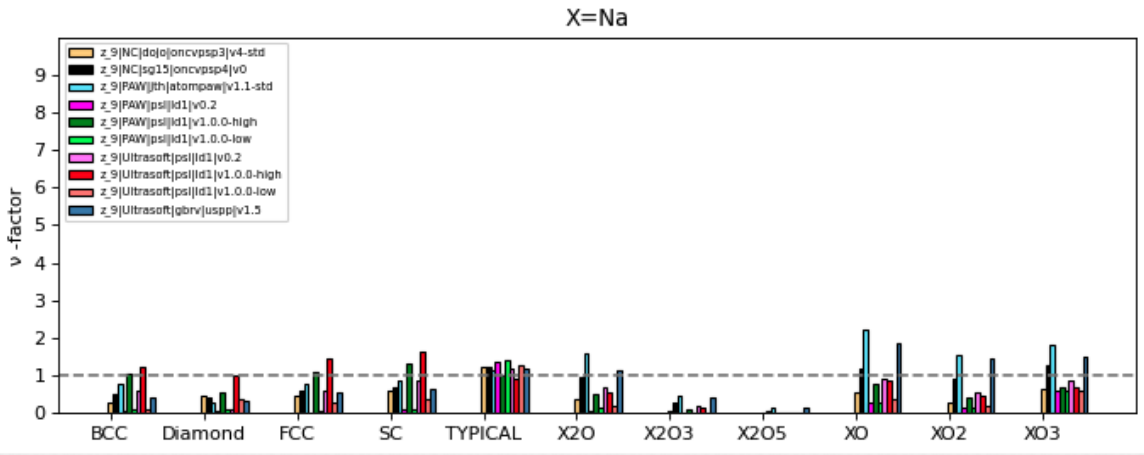
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Cu (Copper)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_19|NC|dojo|oncvpsp3|v4-std	1.228	0.899	0.511	3.169	0.533	0.120	15.950	10.187	11.908	3.120	9.642	z_19
1	z_19|NC|dojo|oncvpsp3|v4-str	1.618	0.810	0.551	3.002	0.533	0.131	16.216	9.530	14.499	2.957	9.046	z_19
2	z_19|NC|sg15|oncvpsp4|v0	0.226	0.292	0.553	0.194	0.119	0.057	0.439	1.537	2.093	1.295	1.355	z_19
3	z_11|PAW|psl|ld1|v0.2	2.506	1.483	1.814	1.435	0.501	0.175	4.834	4.790	4.664	2.739	4.595	z_11
4	z_11|PAW|psl|ld1|v1.0.0-low	0.229	0.211	0.455	0.106	0.056	0.010	0.310	0.289	0.389	0.346	0.291	z_11
5	z_19|PAW|psl|ld1|v1.0.0-high	0.463	0.223	0.280	0.262	0.073	0.027	1.330	1.269	1.360	0.711	1.119	z_19
6	z_11|Ultrasoft|psl|ld1|v0.2	3.618	1.421	1.704	2.242	0.493	0.243	1.950	5.883	12.315	2.903	5.702	z_11
7	z_11|Ultrasoft|psl|ld1|v1.0.0-low	2.049	0.491	0.818	0.985	0.178	0.112	2.267	2.387	9.578	1.439	2.259	z_11
8	z_19|Ultrasoft|psl|ld1|v1.0.0-high	39.441	1.591	4.612	6.146	1.057	0.675	36.940	21.564	64.972	9.520	21.260	z_19
9	z_19|Ultrasoft|gbrv|uspp|v1.2	0.861	0.340	0.350	0.494	0.122	0.043	1.359	1.306	1.293	0.626	1.139	z_19

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_19|NC|dojo|oncvpsp3|v4-std	80 Ry (3.5)	55 Ry (3.5)	90 Ry (2.5)	90 Ry (3.5)	80 Ry (2.5)	z_19
1	z_19|NC|dojo|oncvpsp3|v4-str	90 Ry (3.5)	70 Ry (4.0)	100 Ry (3.0)	100 Ry (3.0)	90 Ry (4.0)	z_19
2	z_19|NC|sg15|oncvpsp4|v0	70 Ry (3.5)	55 Ry (2.5)	80 Ry (2.5)	75 Ry (2.5)	70 Ry (4.0)	z_19
3	z_11|PAW|psl|ld1|v0.2	120 Ry (7.5)	30 Ry (6.0)	65 Ry (8.0)	150 Ry (7.5)	30 Ry (6.0)	z_11
4	z_11|PAW|psl|ld1|v1.0.0-low	70 Ry (8.0)	30 Ry (6.0)	55 Ry (6.0)	50 Ry (6.0)	35 Ry (6.0)	z_11
5	z_19|PAW|psl|ld1|v1.0.0-high	55 Ry (6.5)	35 Ry (6.0)	120 Ry (6.0)	90 Ry (6.0)	55 Ry (6.0)	z_19
6	z_11|Ultrasoft|psl|ld1|v0.2	100 Ry (7.5)	30 Ry (6.0)	50 Ry (6.5)	70 Ry (8.0)	30 Ry (6.0)	z_11
7	z_11|Ultrasoft|psl|ld1|v1.0.0-low	70 Ry (6.5)	30 Ry (6.0)	55 Ry (6.0)	50 Ry (6.0)	35 Ry (6.0)	z_11
8	z_19|Ultrasoft|psl|ld1|v1.0.0-high	55 Ry (6.5)	35 Ry (6.0)	120 Ry (6.0)	90 Ry (6.0)	55 Ry (8.0)	z_19
9	z_19|Ultrasoft|gbrv|uspp|v1.2	80 Ry (7.5)	30 Ry (6.0)	55 Ry (6.0)	55 Ry (6.0)	35 Ry (6.0)	z_19

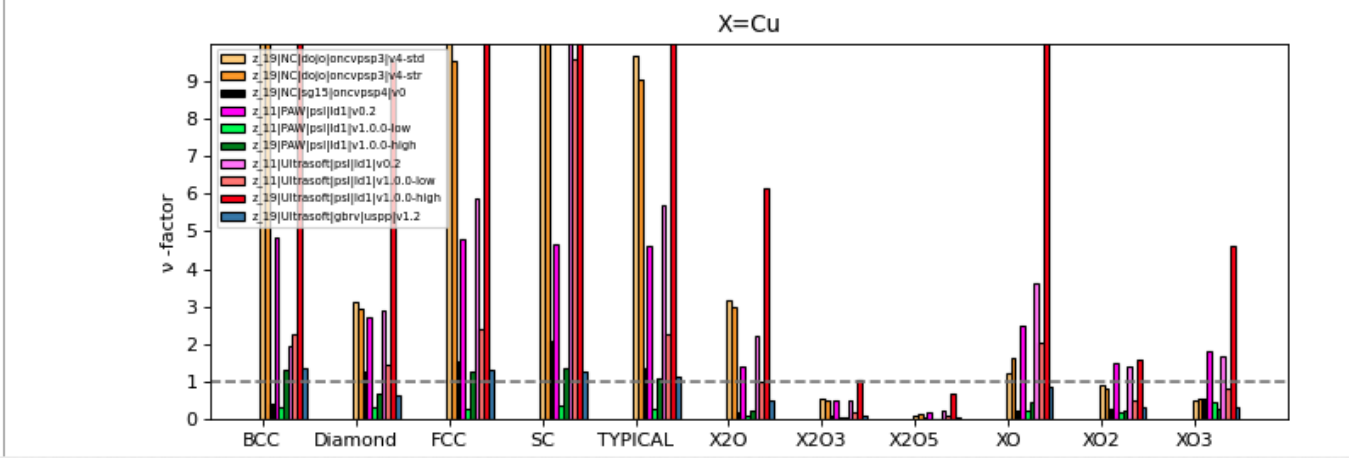
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Cs (Caesium)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_9|NC|dojo|oncvpsp3|v4-std	0.418	0.175	0.759	0.530	0.095	0.137	0.824	0.621	0.726	0.500	3.354	z_9
1	z_9|NC|dojo|oncvpsp3|v4-str	0.418	0.175	0.759	0.530	0.095	0.137	0.824	0.621	0.726	0.500	3.351	z_9
2	z_9|NC|sg15|oncvpsp4|v0	1.576	2.825	5.693	0.858	0.538	0.195	0.677	0.492	0.558	0.417	3.301	z_9
3	z_9|PAW|jth|atompaw|v1.1-std	3.147	5.442	10.312	1.685	1.060	0.514	0.525	0.382	0.402	0.226	3.240	z_9
4	z_9|PAW|psl|ld1|v1.0.0-high	0.350	0.256	0.397	0.539	0.090	0.129	1.277	1.074	1.289	0.775	3.536	z_9
5	z_9|PAW|psl|ld1|v1.0.0-low	1.207	2.328	4.535	0.679	0.429	0.133	1.013	0.817	0.959	0.609	3.423	z_9
6	z_9|Ultrasoft|psl|ld1|v1.0.0-high	0.336	0.332	0.432	0.533	0.080	0.120	1.099	0.896	1.129	0.696	3.449	z_9
7	z_9|Ultrasoft|psl|ld1|v1.0.0-low	1.327	2.491	4.589	0.724	0.467	0.147	0.599	0.420	0.615	0.436	3.261	z_9
8	z_9|Ultrasoft|gbrv|uspp|v1	1.382	2.037	5.023	0.932	0.489	0.420	0.728	0.532	0.612	0.455	3.319	z_9

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_9|NC|dojo|oncvpsp3|v4-std	30 Ry (3.0)	30 Ry (2.0)	40 Ry (2.0)	30 Ry (2.0)	30 Ry (4.0)	z_9
1	z_9|NC|dojo|oncvpsp3|v4-str	30 Ry (3.0)	30 Ry (2.0)	40 Ry (3.0)	45 Ry (4.0)	30 Ry (4.0)	z_9
2	z_9|NC|sg15|oncvpsp4|v0	30 Ry (3.0)	30 Ry (2.0)	45 Ry (2.0)	30 Ry (2.0)	30 Ry (4.0)	z_9
3	z_9|PAW|jth|atompaw|v1.1-std	120 Ry (8.0)	65 Ry (7.5)	100 Ry (8.0)	120 Ry (8.0)	30 Ry (6.0)	z_9
4	z_9|PAW|psl|ld1|v1.0.0-high	nan	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_9
5	z_9|PAW|psl|ld1|v1.0.0-low	30 Ry (6.0)	30 Ry (6.0)	45 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_9
6	z_9|Ultrasoft|psl|ld1|v1.0.0-high	nan	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_9
7	z_9|Ultrasoft|psl|ld1|v1.0.0-low	30 Ry (6.0)	30 Ry (6.0)	45 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_9
8	z_9|Ultrasoft|gbrv|uspp|v1	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_9

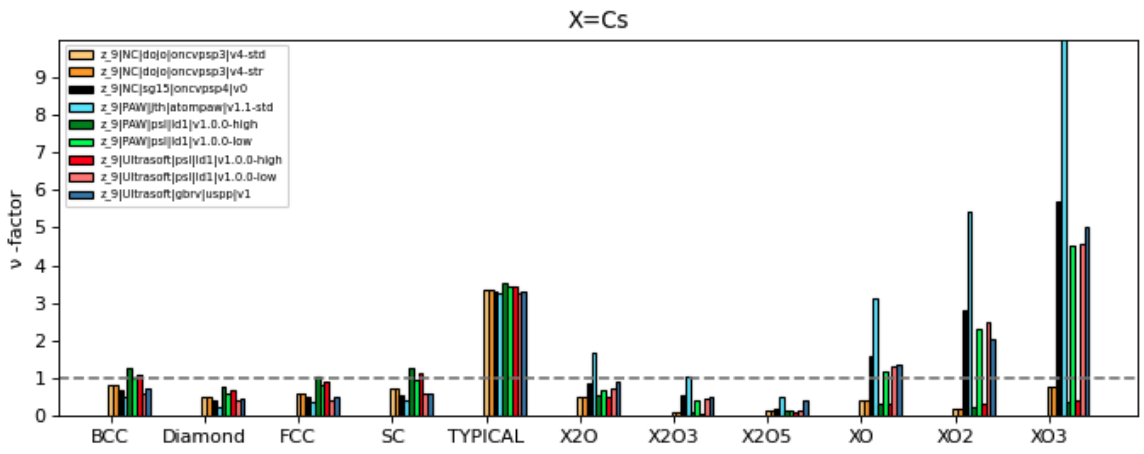
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Cd (Cadmium)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_20|NC|dojo|oncvpsp3|v4-std	0.569	0.366	0.633	0.468	0.118	0.055	1.871	2.842	1.598	2.136	1.386	z_20
1	z_20|NC|dojo|oncvpsp3|v4-str	0.313	0.235	0.550	0.227	0.078	0.030	0.539	1.330	0.339	1.079	0.651	z_20
2	z_20|NC|sg15|oncvpsp4|v0	0.267	0.419	0.534	0.427	0.100	0.047	1.583	1.919	1.354	0.871	1.107	z_20
3	z_12|PAW|psl|ld1|v0.3.1	0.874	0.607	1.079	0.261	0.184	0.081	1.361	0.569	1.093	0.287	0.366	z_12
4	z_12|PAW|psl|ld1|v1.0.0-low	1.440	1.183	2.031	0.541	0.348	0.165	1.549	0.692	1.060	0.422	0.398	z_12
5	z_20|PAW|psl|ld1|v1.0.0-high	0.209	0.216	0.543	0.051	0.065	0.023	1.080	0.347	1.062	0.319	0.226	z_20
6	z_12|Ultrasoft|psl|ld1|v0.3.1	1.147	0.553	0.982	0.280	0.177	0.081	1.982	1.159	1.672	0.625	0.671	z_12
7	z_12|Ultrasoft|psl|ld1|v1.0.0-low	1.268	1.156	2.026	0.513	0.333	0.157	1.479	0.597	0.972	0.433	0.362	z_12
8	z_12|Ultrasoft|gbrv|uspp|v1	1.442	0.808	1.031	0.518	0.262	0.113	1.560	1.781	1.083	0.534	0.801	z_12
9	z_20|Ultrasoft|psl|ld1|v1.0.0-high	0.236	0.225	0.551	0.081	0.067	0.024	0.817	0.032	0.784	0.088	0.146	z_20

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_20|NC|dojo|oncvpsp3|v4-std	90 Ry (3.0)	50 Ry (4.0)	100 Ry (2.0)	90 Ry (2.5)	75 Ry (2.5)	z_20
1	z_20|NC|dojo|oncvpsp3|v4-str	100 Ry (2.5)	45 Ry (4.0)	120 Ry (2.0)	100 Ry (2.5)	90 Ry (2.5)	z_20
2	z_20|NC|sg15|oncvpsp4|v0	35 Ry (2.5)	30 Ry (2.0)	40 Ry (2.0)	35 Ry (2.0)	35 Ry (4.0)	z_20
3	z_12|PAW|psl|ld1|v0.3.1	40 Ry (6.0)	30 Ry (6.0)	60 Ry (6.0)	35 Ry (6.0)	30 Ry (6.0)	z_12
4	z_12|PAW|psl|ld1|v1.0.0-low	80 Ry (8.0)	45 Ry (7.0)	60 Ry (6.0)	55 Ry (8.0)	35 Ry (6.0)	z_12
5	z_20|PAW|psl|ld1|v1.0.0-high	90 Ry (7.5)	70 Ry (7.5)	120 Ry (6.0)	70 Ry (8.0)	55 Ry (6.0)	z_20
6	z_12|Ultrasoft|psl|ld1|v0.3.1	40 Ry (6.0)	30 Ry (6.0)	60 Ry (6.0)	35 Ry (6.0)	30 Ry (6.0)	z_12
7	z_12|Ultrasoft|psl|ld1|v1.0.0-low	80 Ry (8.0)	45 Ry (7.0)	60 Ry (6.0)	55 Ry (8.0)	30 Ry (6.0)	z_12
8	z_12|Ultrasoft|gbrv|uspp|v1	40 Ry (8.0)	30 Ry (6.0)	120 Ry (6.0)	55 Ry (6.0)	30 Ry (6.0)	z_12
9	z_20|Ultrasoft|psl|ld1|v1.0.0-high	90 Ry (7.5)	70 Ry (7.5)	120 Ry (6.0)	65 Ry (7.0)	55 Ry (6.0)	z_20

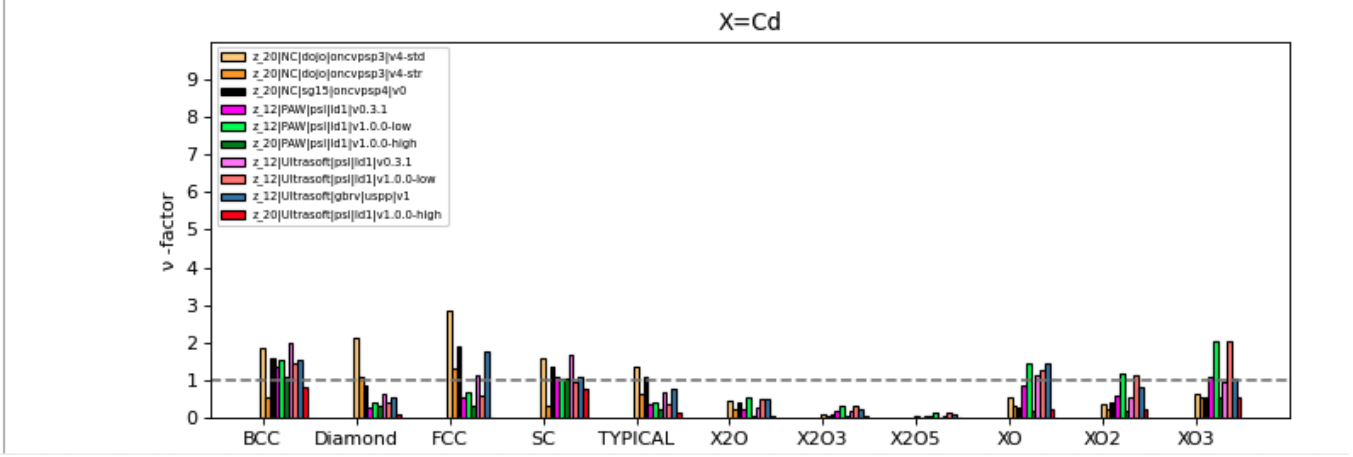
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Ba (Barium)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_10|NC|dojo|oncvpsp3|v4-sp	0.309	0.140	0.107	0.328	0.038	0.070	0.401	0.327	0.600	0.326	1.928	z_10
1	z_10|NC|dojo|oncvpsp3|v4-std	2.109	2.142	8.508	3.044	0.596	0.299	1.530	1.508	4.102	6.636	2.994	z_10
2	z_10|NC|dojo|oncvpsp3|v4-str	1.985	2.021	8.144	2.898	0.564	0.278	1.434	1.407	3.908	6.294	2.916	z_10
3	z_10|NC|dojo|oncvpsp4|v4-sp	0.309	0.140	0.107	0.328	0.038	0.070	0.401	0.327	0.600	0.326	1.929	z_10
4	z_10|NC|sg15|oncvpsp4|v0	0.207	0.130	0.770	0.278	0.029	0.053	0.399	0.361	0.674	0.150	1.930	z_10
5	z_10|PAW|psl|ld1|v1.0.0-high	2.011	2.068	8.319	2.928	0.576	0.287	1.215	1.191	3.551	5.863	2.699	z_10
6	z_10|Ultrasoft|psl|ld1|v1.0.0-high	2.028	2.090	8.342	2.999	0.583	0.291	1.459	1.483	3.883	6.219	2.907	z_10
7	z_10|Ultrasoft|gbrv|uspp|v1	2.092	2.469	9.461	2.239	0.622	0.386	0.811	0.776	1.913	4.658	2.461	z_10

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_10|NC|dojo|oncvpsp3|v4-sp	35 Ry (2.5)	30 Ry (2.0)	45 Ry (2.0)	30 Ry (2.0)	30 Ry (4.0)	z_10
1	z_10|NC|dojo|oncvpsp3|v4-std	30 Ry (2.5)	30 Ry (2.0)	45 Ry (2.0)	35 Ry (2.0)	30 Ry (4.0)	z_10
2	z_10|NC|dojo|oncvpsp3|v4-str	35 Ry (2.5)	30 Ry (2.0)	45 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	z_10
3	z_10|NC|dojo|oncvpsp4|v4-sp	35 Ry (2.5)	30 Ry (2.0)	45 Ry (2.0)	35 Ry (2.0)	30 Ry (2.0)	z_10
4	z_10|NC|sg15|oncvpsp4|v0	30 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	30 Ry (4.0)	z_10
5	z_10|PAW|psl|ld1|v1.0.0-high	30 Ry (6.0)	30 Ry (6.0)	35 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_10
6	z_10|Ultrasoft|psl|ld1|v1.0.0-high	30 Ry (6.0)	30 Ry (6.0)	35 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	z_10
7	z_10|Ultrasoft|gbrv|uspp|v1	nan	30 Ry (6.0)	45 Ry (6.0)	30 Ry (6.0)	30 Ry (8.0)	z_10

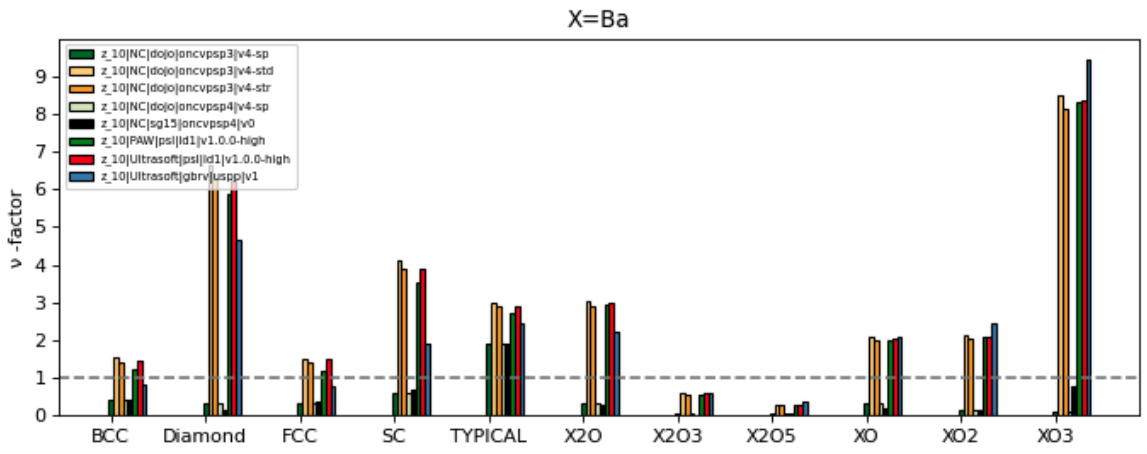
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



As (Arsenic)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL	Z
0	z_15|NC|dojo|oncvpsp3|v4-std	0.087	0.229	0.633	0.136	0.048	0.012	0.708	0.279	0.697	0.237	0.240	z_15
1	z_23|NC|dojo|oncvpsp3|v4-str	0.062	0.067	0.157	0.128	0.018	0.015	0.886	0.570	0.707	0.450	0.142	z_23
2	z_5|NC|sg15|oncvpsp4|v0	0.216	0.933	1.960	0.261	0.197	0.065	0.953	0.596	1.840	0.861	0.736	z_5
3	z_15|PAW|jth|atompaw|v1.1-std	0.030	0.083	0.349	0.102	0.013	0.033	0.653	0.289	0.640	0.250	0.160	z_15
4	z_15|PAW|psl|id1|v1.0.0-high	0.310	0.495	1.165	0.296	0.115	0.043	1.186	0.608	0.979	0.398	0.349	z_15
5	z_5|PAW|psl|id1|v0.2	0.522	1.506	4.894	0.544	0.297	0.149	0.946	0.589	1.086	0.438	0.353	z_5
6	z_5|PAW|psl|id1|v1.0.0-low	0.521	1.506	4.889	0.543	0.297	0.149	0.941	0.587	1.081	0.434	0.348	z_5
7	z_15|Ultrasoft|psl|id1|v1.0.0-high	0.298	0.506	1.286	0.297	0.114	0.043	1.187	0.574	1.013	0.386	0.372	z_15
8	z_5|Ultrasoft|psl|id1|v0.2	0.534	1.521	4.862	0.550	0.301	0.150	0.948	0.578	1.059	0.427	0.334	z_5
9	z_5|Ultrasoft|psl|id1|v1.0.0-low	0.533	1.520	4.860	0.549	0.301	0.150	0.943	0.576	1.055	0.423	0.329	z_5
10	z_5|Ultrasoft|gbrv|uspp|v1	0.348	0.861	3.053	0.468	0.182	0.072	1.767	1.211	1.937	0.856	0.978	z_5

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands	Z
0	z_15|NC|dojo|oncvpsp3|v4-std	70 Ry (3.5)	40 Ry (4.0)	80 Ry (2.5)	75 Ry (3.5)	60 Ry (2.0)	z_15
1	z_23|NC|dojo|oncvpsp3|v4-str	120 Ry (4.0)	90 Ry (4.0)	100 Ry (4.0)	120 Ry (4.0)	100 Ry (2.5)	z_23
2	z_5|NC|sg15|oncvpsp4|v0	30 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	30 Ry (2.0)	z_5
3	z_15|PAW|jth|atompaw|v1.1-std	35 Ry (7.5)	30 Ry (6.0)	30 Ry (6.0)	90 Ry (6.5)	30 Ry (6.0)	z_15
4	z_15|PAW|psl|id1|v1.0.0-high	40 Ry (7.0)	30 Ry (6.0)	65 Ry (6.0)	40 Ry (6.0)	30 Ry (6.0)	z_15
5	z_5|PAW|psl|id1|v0.2	35 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	40 Ry (6.0)	30 Ry (8.0)	z_5
6	z_5|PAW|psl|id1|v1.0.0-low	35 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	40 Ry (6.0)	30 Ry (8.0)	z_5
7	z_15|Ultrasoft|psl|id1|v1.0.0-high	40 Ry (7.0)	30 Ry (6.0)	65 Ry (6.0)	40 Ry (6.0)	30 Ry (6.0)	z_15
8	z_5|Ultrasoft|psl|id1|v0.2	35 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	40 Ry (6.0)	30 Ry (8.0)	z_5
9	z_5|Ultrasoft|psl|id1|v1.0.0-low	35 Ry (6.0)	30 Ry (6.0)	30 Ry (6.0)	40 Ry (6.0)	30 Ry (8.0)	z_5
10	z_5|Ultrasoft|gbrv|uspp|v1	40 Ry (7.5)	30 Ry (6.0)	30 Ry (6.0)	65 Ry (6.0)	30 Ry (8.0)	z_5

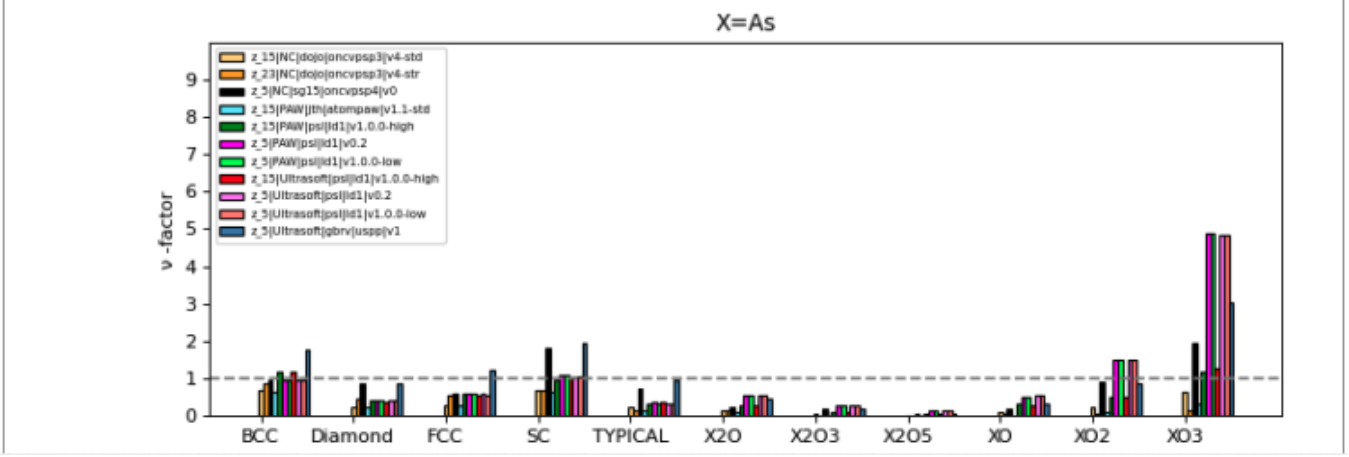
Switch criteria to:

Efficiency | Precision

Show ρ or dual

Default | Show ρ cutoff | Show dual

v-factor | Δ-factor



Ne (Neon)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL
0	z_8|NC|dojo|oncvpsp3|v4-std	1.061	0.214	0.715	1.722	0.023	0.042	8.518	8.313	5.973	2.406	6.636
1	z_8|NC|sg15|oncvpsp4|v0	5.430	5.817	9.383	1.491	1.957	0.748	3.949	4.406	2.857	2.546	5.375
2	z_8|PAW|psl|ld1|v1.0.0-high	0.181	0.165	0.701	0.779	0.034	0.053	1.148	2.123	0.273	0.667	6.663
3	z_8|Ultrasoft|psl|ld1|v1.0.0-high	39.235	9.131	13.909	42.454	4.269	1.510	169.678	105.279	125.960	55.065	106.766

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands
0	z_8|NC|dojo|oncvpsp3|v4-std	55 Ry (165 Ry)	120 Ry (480 Ry)	120 Ry (360 Ry)	55 Ry (165 Ry)	55 Ry (110 Ry)
1	z_8|NC|sg15|oncvpsp4|v0	35 Ry (105 Ry)	30 Ry (90 Ry)	45 Ry (112 Ry)	35 Ry (105 Ry)	35 Ry (70 Ry)
2	z_8|PAW|psl|ld1|v1.0.0-high	40 Ry (280 Ry)	55 Ry (357 Ry)	200 Ry (1200 Ry)	45 Ry (360 Ry)	35 Ry (210 Ry)
3	z_8|Ultrasoft|psl|ld1|v1.0.0-high	40 Ry (240 Ry)	nan	70 Ry (420 Ry)	65 Ry (390 Ry)	35 Ry (210 Ry)

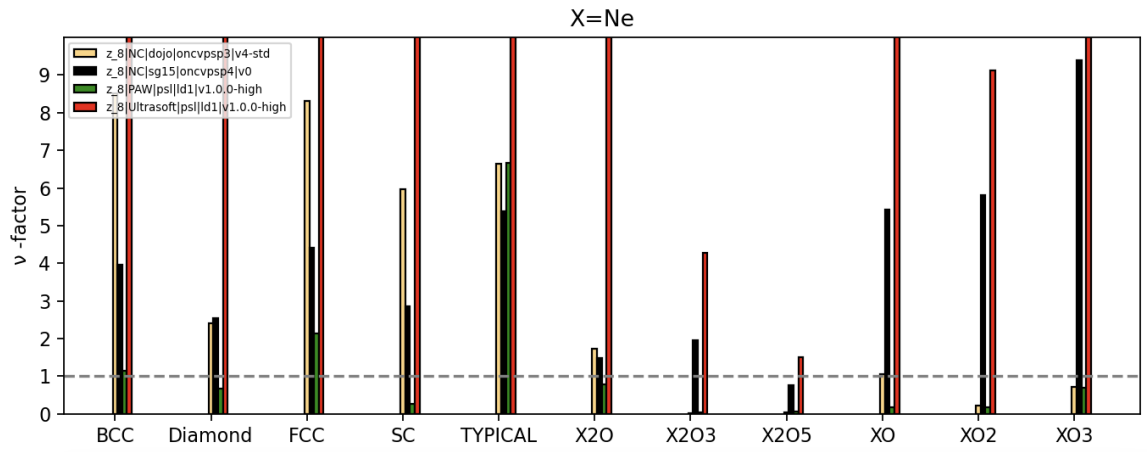
Switch criteria to:

Efficiency | Precision

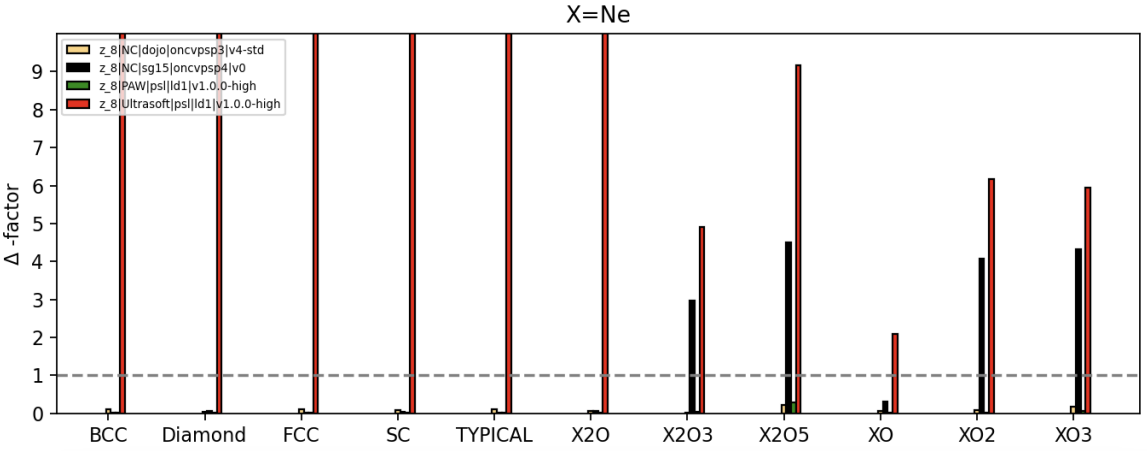
Show ρ or dual

Default | Show ρ cutoff | Show dual

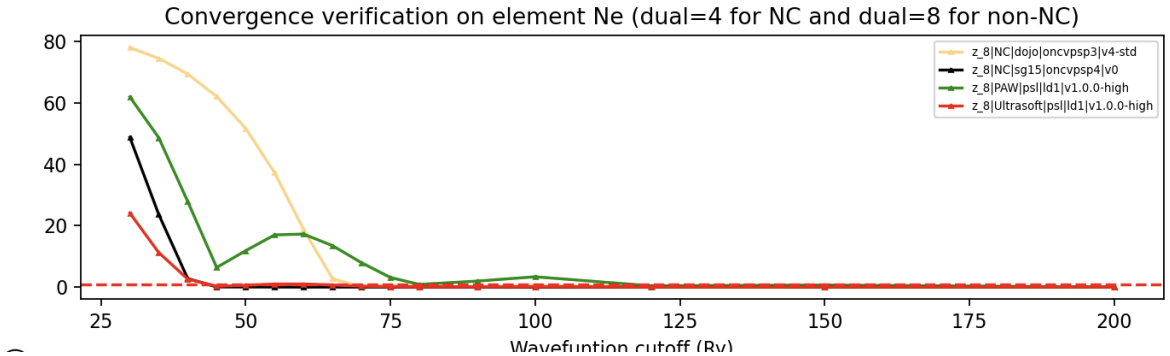
v-factor | Δ-factor



v-factor | Δ-factor



- (●) Pressure (Relative Error, %)
- ( ) Bands distance (Avg. error meV)
- ( ) Bands distance (Max. error meV)
- ( ) Delta (Relative Error, %)
- ( ) Delta (Raw value, meV/cell)



Kr (Krypton)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL
0	z_8|NC|dojo|oncvpsp3|v4-std	0.484	0.237	0.276	0.703	0.067	0.049	6.021	6.134	4.931	3.280	2.069
1	z_8|NC|sg15|oncvpsp4|v0	0.763	1.246	2.987	0.482	0.314	0.083	5.518	5.638	4.485	3.082	1.986
2	z_18|PAW|psl|ld1|v1.0.0-high	0.437	0.432	0.716	0.337	0.106	0.023	2.611	2.991	2.431	2.237	3.267
3	z_18|Ultrasoft|psl|ld1|v1.0.0-high	0.499	0.589	0.899	0.286	0.149	0.006	4.906	4.380	3.207	2.548	2.302

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands
0	z_8|NC|dojo|oncvpsp3|v4-std	30 Ry (75 Ry)	30 Ry (75 Ry)	70 Ry (140 Ry)	40 Ry (80 Ry)	35 Ry (87 Ry)
1	z_8|NC|sg15|oncvpsp4|v0	30 Ry (60 Ry)	30 Ry (60 Ry)	30 Ry (60 Ry)	30 Ry (60 Ry)	30 Ry (90 Ry)
2	z_18|PAW|psl|ld1|v1.0.0-high	55 Ry (330 Ry)	50 Ry (300 Ry)	200 Ry (1200 Ry)	55 Ry (330 Ry)	45 Ry (270 Ry)
3	z_18|Ultrasoft|psl|ld1|v1.0.0-high	50 Ry (300 Ry)	65 Ry (487 Ry)	200 Ry (1200 Ry)	50 Ry (300 Ry)	40 Ry (240 Ry)

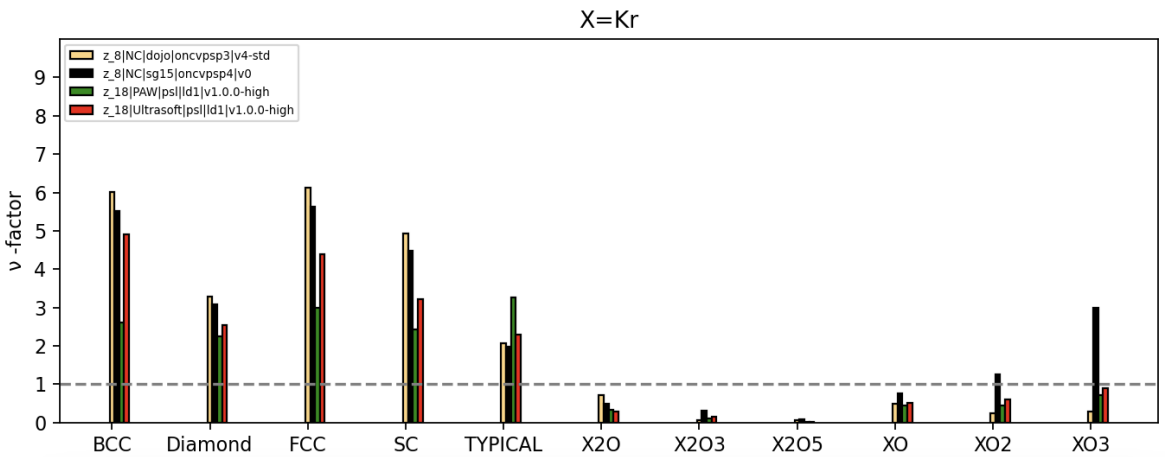
Switch criteria to:

Efficiency | Precision

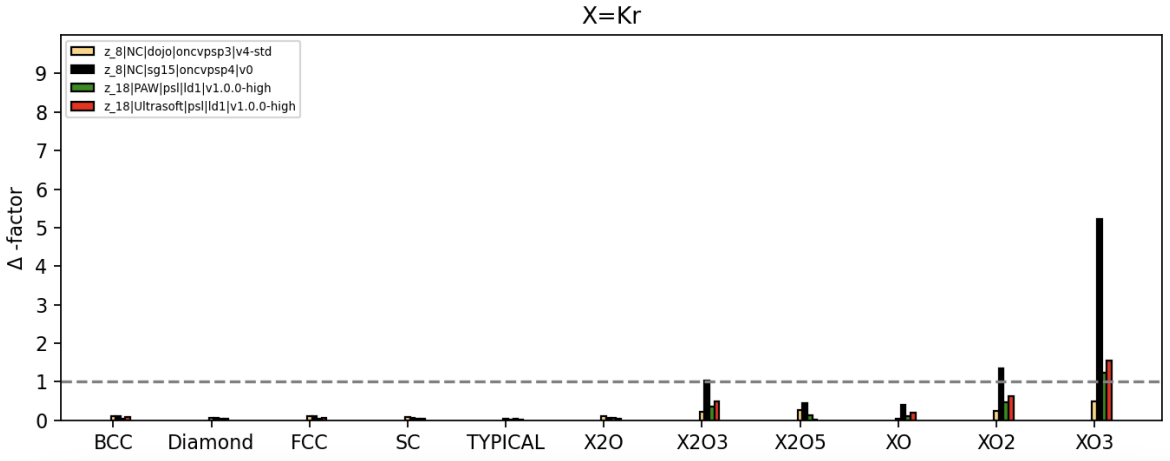
Show ρ or dual

Default | Show ρ cutoff | Show dual

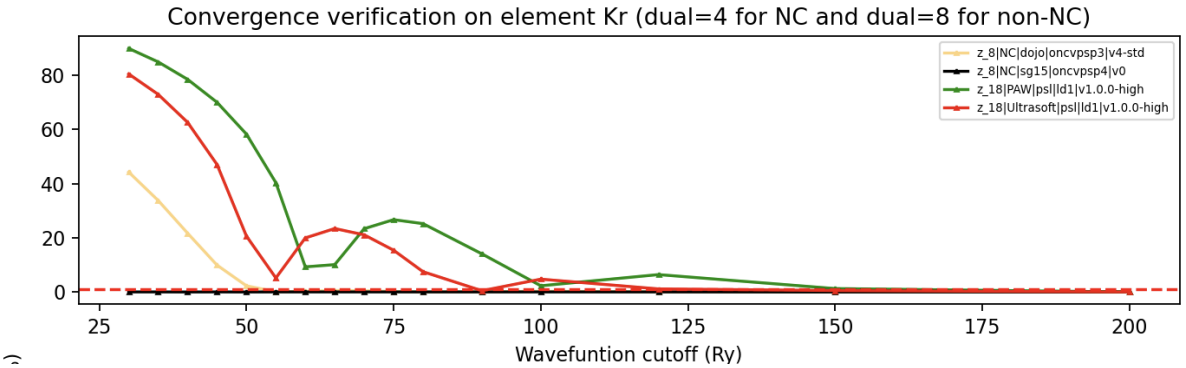
v-factor | Δ-factor



v-factor | Δ-factor



- (•) Pressure (Relative Error, %)
- ( ) Bands distance (Avg. error meV)
- ( ) Bands distance (Max. error meV)
- ( ) Delta (Relative Error, %)
- ( ) Delta (Raw value, meV/cell)



Xe (Xenon)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL
0	z_18|NC|sg15|oncvpsp4|v0	1.450	2.864	5.821	0.714	0.718	0.505	7.270	7.622	5.955	3.695	4.645
1	z_8|NC|dojo|oncvpsp3|v4-std	0.516	1.646	3.474	0.756	0.434	0.275	3.802	3.895	3.783	2.653	1.131
2	z_18|PAW|psl|ld1|v1.0.0-high	1.238	2.281	4.524	0.626	0.585	0.389	1.658	2.038	2.007	1.779	1.440
3	z_18|Ultrasoft|psl|ld1|v1.0.0-high	1.225	2.275	4.524	0.619	0.580	0.387	3.158	3.782	2.897	2.186	1.271

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands
0	z_18|NC|sg15|oncvpsp4|v0	45 Ry (180 Ry)	70 Ry (280 Ry)	50 Ry (150 Ry)	50 Ry (150 Ry)	35 Ry (70 Ry)
1	z_8|NC|dojo|oncvpsp3|v4-std	30 Ry (75 Ry)	30 Ry (60 Ry)	150 Ry (300 Ry)	30 Ry (60 Ry)	30 Ry (120 Ry)
2	z_18|PAW|psl|ld1|v1.0.0-high	40 Ry (240 Ry)	60 Ry (450 Ry)	150 Ry (900 Ry)	45 Ry (270 Ry)	35 Ry (210 Ry)
3	z_18|Ultrasoft|psl|ld1|v1.0.0-high	40 Ry (240 Ry)	75 Ry (562 Ry)	150 Ry (900 Ry)	45 Ry (270 Ry)	35 Ry (210 Ry)

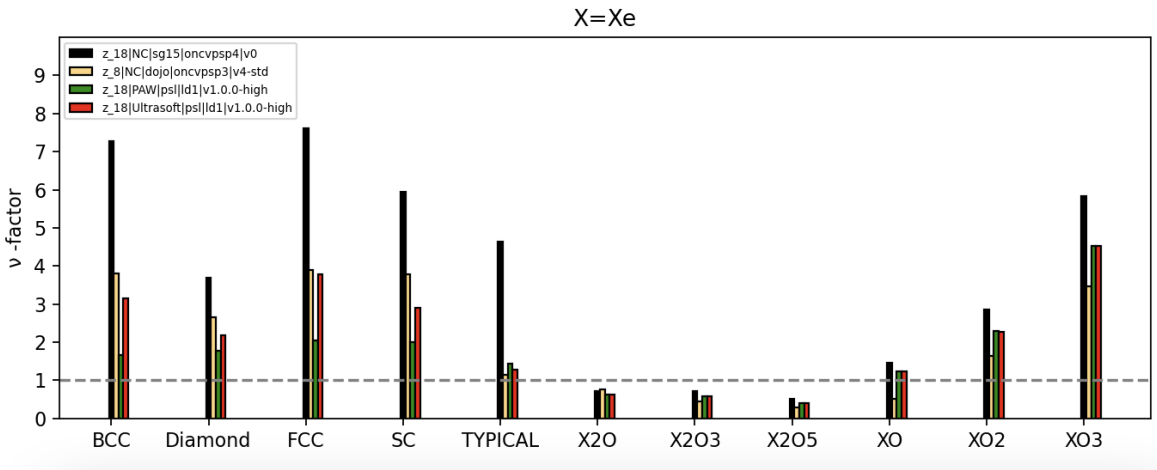
Switch criteria to:

Efficiency | Precision

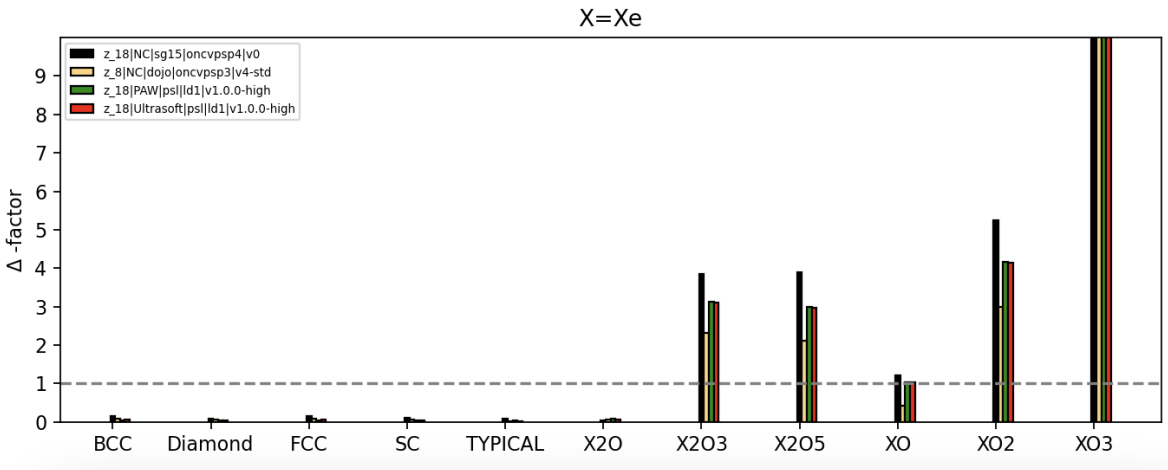
Show ρ or dual

Default | Show ρ cutoff | Show dual

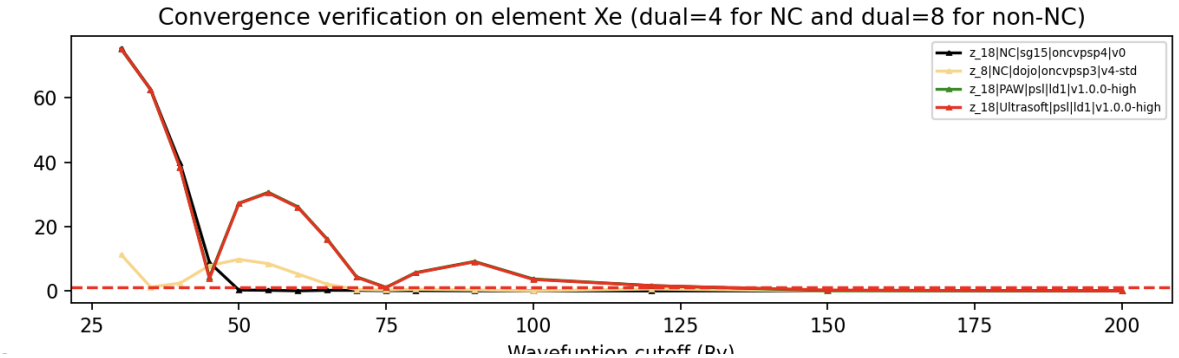
v-factor | Δ-factor



v-factor | Δ-factor



- (●) Pressure (Relative Error, %)
- ( ) Bands distance (Avg. error meV)
- ( ) Bands distance (Max. error meV)
- ( ) Delta (Relative Error, %)
- ( ) Delta (Raw value, meV/cell)



Rn (Radon)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL
0	z_18|NC|dojo|oncvpsp3|v4-std	0.562	1.574	2.832	0.327	0.401	0.364	7.555	8.296	5.978	3.512	4.349
1	z_18|PAW|psl|ld1|v1.0.0-high	0.922	1.840	3.072	0.469	0.486	0.424	1.058	1.408	1.147	1.214	3.152
2	z_18|Ultrasoft|psl|ld1|v1.0.0-high	0.894	1.832	3.096	0.431	0.483	0.430	2.835	3.487	2.369	1.747	1.361

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands
0	z_18|NC|dojo|oncvpsp3|v4-std	60 Ry (210 Ry)	100 Ry (400 Ry)	90 Ry (270 Ry)	55 Ry (165 Ry)	45 Ry (90 Ry)
1	z_18|PAW|psl|ld1|v1.0.0-high	45 Ry (270 Ry)	40 Ry (260 Ry)	200 Ry (1200 Ry)	45 Ry (270 Ry)	40 Ry (240 Ry)
2	z_18|Ultrasoft|psl|ld1|v1.0.0-high	45 Ry (270 Ry)	40 Ry (240 Ry)	200 Ry (1500 Ry)	50 Ry (300 Ry)	40 Ry (240 Ry)

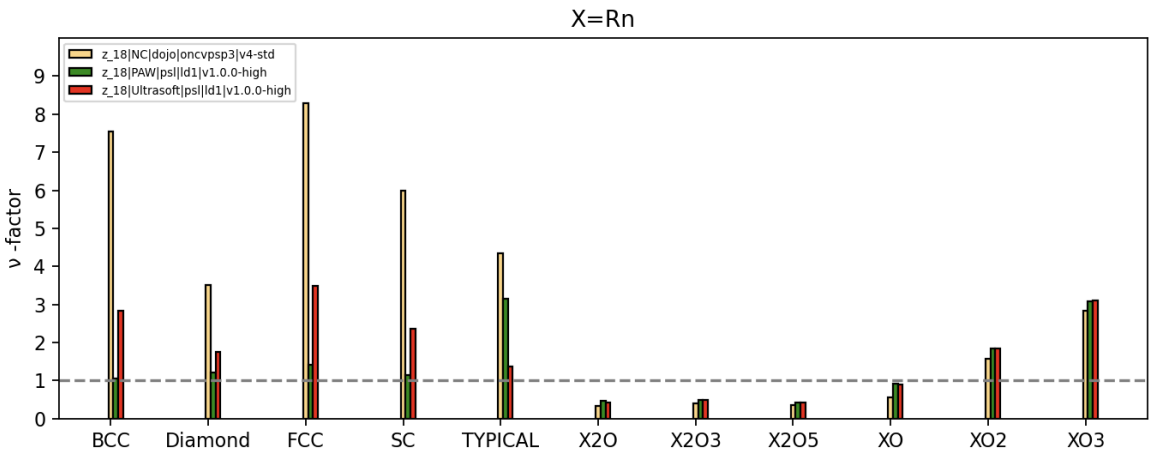
Switch criteria to:

Efficiency | Precision

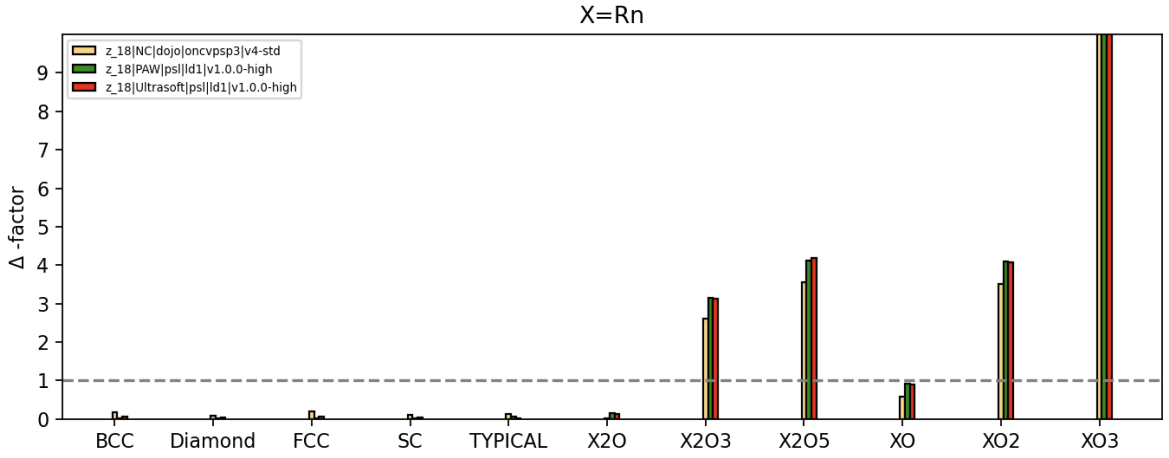
Show ρ or dual

Default | Show ρ cutoff | Show dual

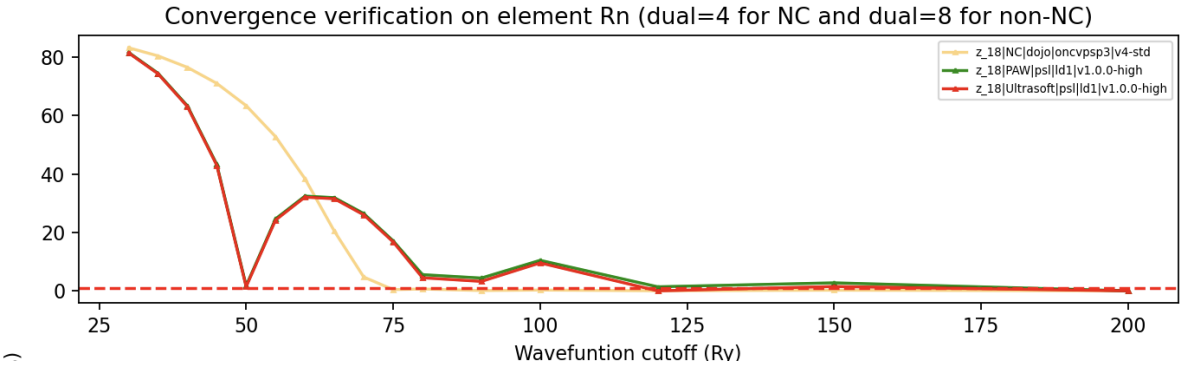
v-factor | Δ-factor



v-factor | Δ-factor



- (•) Pressure (Relative Error, %)
- ( ) Bands distance (Avg. error meV)
- ( ) Bands distance (Max. error meV)
- ( ) Delta (Relative Error, %)
- ( ) Delta (Raw value, meV/cell)

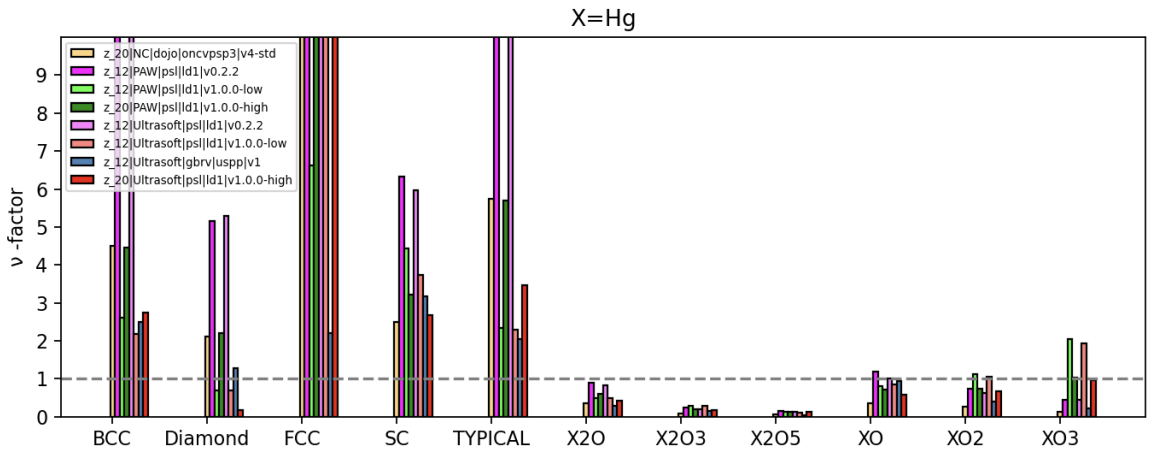


Hg (Mercury)

	Pseudopotential label	XO	XO2	XO3	X2O	X2O3	X2O5	BCC	FCC	SC	Diamond	TYPICAL
0	z_20|NC|dojo|oncvpsp3|v4-std	0.356	0.261	0.134	0.361	0.071	0.062	4.499	27.190	2.504	2.115	5.753
1	z_12|PAW|psl|ld1|v0.2.2	1.184	0.726	0.448	0.903	0.231	0.154	10.731	47.319	6.329	5.147	12.132
2	z_12|PAW|psl|ld1|v1.0.0-low	0.805	1.114	2.034	0.496	0.288	0.117	2.610	6.617	4.435	0.683	2.339
3	z_20|PAW|psl|ld1|v1.0.0-high	0.722	0.727	1.023	0.603	0.184	0.129	4.465	38.706	3.225	2.211	5.689
4	z_12|Ultrasoft|psl|ld1|v0.2.2	1.016	0.630	0.432	0.818	0.196	0.137	10.452	63.299	5.969	5.301	11.858
5	z_12|Ultrasoft|psl|ld1|v1.0.0-low	0.845	1.062	1.923	0.488	0.283	0.113	2.181	10.248	3.733	0.689	2.299
6	z_12|Ultrasoft|gbrv|uspp|v1	0.939	0.391	0.207	0.274	0.155	0.033	2.497	2.196	3.177	1.286	2.036
7	z_20|Ultrasoft|psl|ld1|v1.0.0-high	0.589	0.662	0.971	0.427	0.168	0.117	2.753	14.269	2.679	0.163	3.461

	Pseudopotential label	cohesive energy	phonon frequencies	pressure	delta	bands
0	z_20|NC|dojo|oncvpsp3|v4-std	45 Ry (157 Ry)	30 Ry (105 Ry)	70 Ry (175 Ry)	55 Ry (137 Ry)	50 Ry (100 Ry)
1	z_12|PAW|psl|ld1|v0.2.2	30 Ry (180 Ry)	30 Ry (180 Ry)	80 Ry (480 Ry)	35 Ry (210 Ry)	30 Ry (180 Ry)
2	z_12|PAW|psl|ld1|v1.0.0-low	45 Ry (337 Ry)	30 Ry (180 Ry)	60 Ry (360 Ry)	40 Ry (300 Ry)	30 Ry (180 Ry)
3	z_20|PAW|psl|ld1|v1.0.0-high	120 Ry (720 Ry)	55 Ry (412 Ry)	200 Ry (1200 Ry)	65 Ry (487 Ry)	50 Ry (300 Ry)
4	z_12|Ultrasoft|psl|ld1|v0.2.2	30 Ry (180 Ry)	30 Ry (180 Ry)	60 Ry (360 Ry)	35 Ry (210 Ry)	30 Ry (180 Ry)
5	z_12|Ultrasoft|psl|ld1|v1.0.0-low	45 Ry (337 Ry)	30 Ry (180 Ry)	60 Ry (360 Ry)	45 Ry (337 Ry)	30 Ry (180 Ry)
6	z_12|Ultrasoft|gbrv|uspp|v1	30 Ry (180 Ry)	30 Ry (180 Ry)	90 Ry (540 Ry)	30 Ry (180 Ry)	30 Ry (180 Ry)
7	z_20|Ultrasoft|psl|ld1|v1.0.0-high	120 Ry (720 Ry)	55 Ry (412 Ry)	200 Ry (1200 Ry)	50 Ry (400 Ry)	50 Ry (300 Ry)

v-factor | Δ-factor



v-factor | Δ-factor