

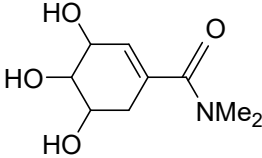
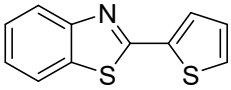
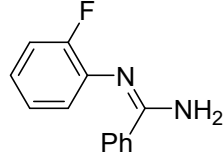
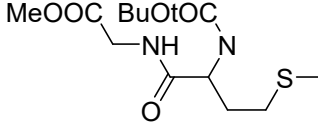
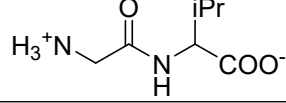
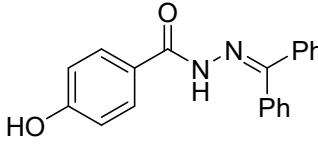
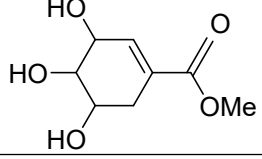
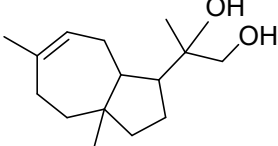
Supplementary Information

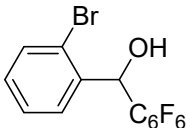
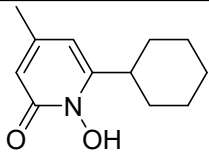
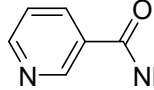
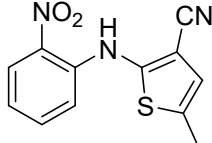
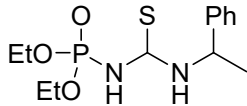
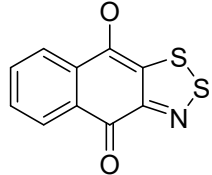
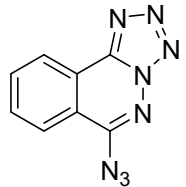
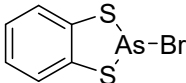
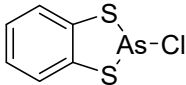
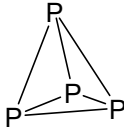
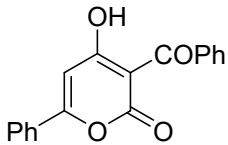
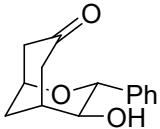
A lot to unpack: A decade in high Z' crystal structures

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Table S1 Details of the structures referenced in this work (in order of appearance)

CSD Refcode	Z'	Space Group	Chemical name	Structure
BOHYIK	2	$P2_1$	Dimethylshikamide	
CAMBAV02	4	$P2_1/n$	2-(thiophen-2-yl)-1,3-benzothiazole	
CAMBAV03	4	$P-1$		
EGULOK	8	$P-1$		
CAMBAV	2	$P2_1/c$		
SUXLII	2	$P-1$	(Z)-2-Fluoro-N'-phenyl benzamide	
SUXLII01	3	$P-1$		
MARJEY	4	$P1$	Boc-L-methionyl glycine ester	
MARJEY01	8	$P1$		
MARJEY02	4	$P1$		
MARJEY03	4	$P1$		
WEVWOK	7	$P2_12_12_1$	Glycyl-L-valine	
WEVWOK01	1	$P2_12_12_1$		
WEVWOK02	1	$P2_12_12_1$		
KOSSIY	2	$P2_1/c$	(E)-N'-diphenylmethylene-4-hydroxybenzohydrazide	
KOSSIY01	1	$P2_1/c$		
KOSSIY02	6	$P2_1$		
KOSSIY03	2	$P2_1/c$		
KOSSIY04	2	$P-1$		
KOSSIY05	1	$P2_1/c$		
BOHYUW	12	$P2_1$	Methyl shikimate ester	
WIYKUO	6	$P1$	Daphneillata C	

OTOGOW	8	P_1	(2-bromophenyl)(pentafluorophenyl) methanol	
LUXYOU03	12	$P_{2_1/c}$	6-cyclohexyl-1-hydroxy-4-methylpyridin-2(1H)-one	
NICOAM09/ NICOAM12	20	P_{2_1}	Nicotinamide	
QAXMEH57	2	$P-1$	5-methyl-2-((nitrophenyl)amino)-3-thiophenecarbonitrile	
AZOMAG04	16	P_{2_1}	(R)-diethyl N-[(1-phenylethyl)carbamothioyl]phosphoramidate	
AYADOW01	12	$P-1$	5,8-dimethyl-4H-naphtho[2,3-d][1,2,3]dithiazol-4-one-9-oxyl radical	
DAKCEX07	4	$P_{2_1/c}$	6-azidotetrazolo[5,1-a]phthalazine	
DAKCEX08	16	$P-1$		
DAKCEX09	8	$P_{2_1/c}$		
LUBVUC	13	$P-1$	2-bromo-2H-1,3,2-benzodithiarsole	
KEFSUM	17	$P-1$	2-chloro-2H-1,3,2-benzodithiarsole	
LOFRAD/ LOFRAD01	29	$P_{2_1}2_12_1$	White phosphorus	
OYACEX01	12	$P_{2_1/n}$	3-benzoyl-4-hydroxy-6-phenyl-2H-pyran-2-one	
OYACEX	1	$P_{2_1/n}$		
EKAXEV01	16	P_{2_1}	Parvistone E	
EKAXEV	4	P_{2_1}		

IQEQUT	12	$P_{2,1/n}$	3-(1-aminoethylidene)-1,3-dihydro-2H-indol-2-one	
ZINXAY	12	$P-1$	1-(5-ethoxy-2-methyl-4-phenyl-1H-pyrrol-3-yl)ethan-1-one	
RABZIH	15	$P-1$	[4-(dimethylamino)-3-(dodecylsulfanyl)but-3-en-2-ylidene]propanedinitrile	
CIDHAB/ CIDHAB01	1	$P-1$	4-(4-chlorophenyl)-3-nitro-1,2-oxazole	
KEJZEI	16	$P1$	3-(trifluoromethyl)-3,4-dihydro-2H-1-benzopyran-4-ol	
OFEREZ	24	$P1$	6-(5,6-dimethoxy-1-benzothiophen-2-yl)-5-methyl-4,5-dihydropyridazin-3(2H)-one	