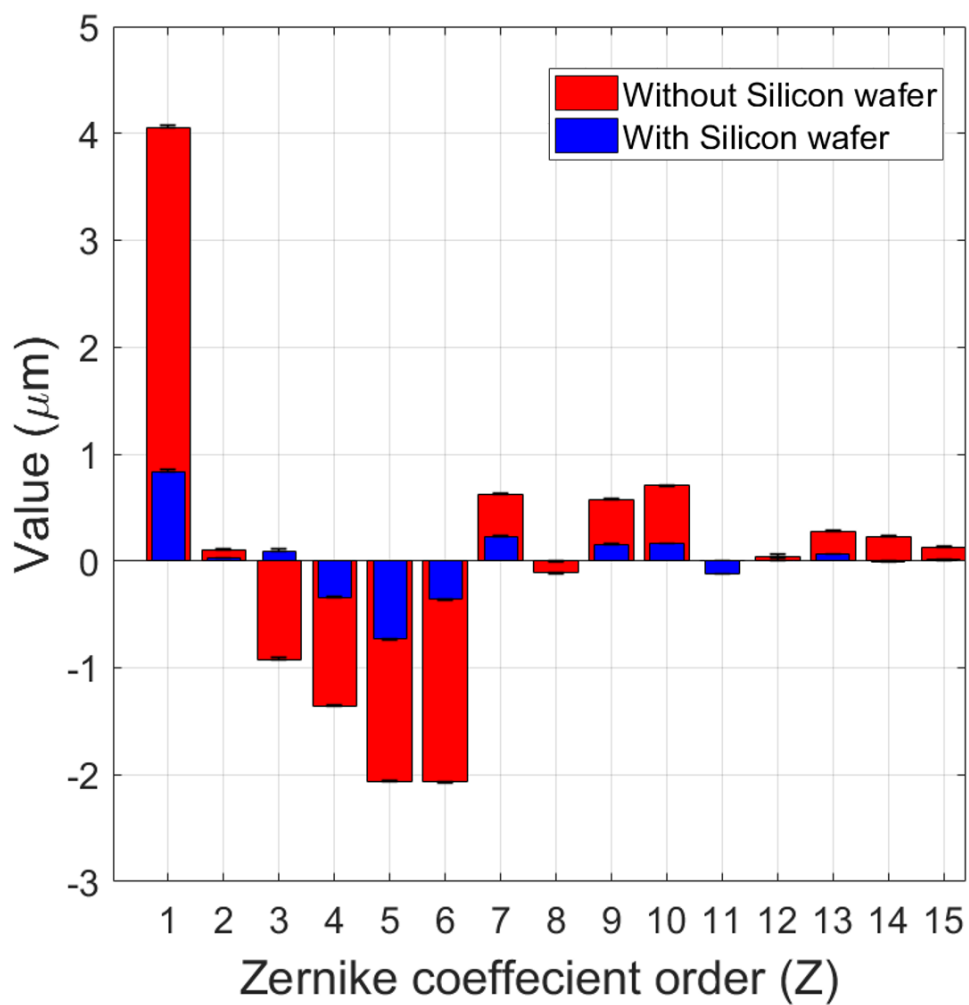


Supplementary



1S: The measured wavefront decomposition of the first 15 Zernike coefficients without and with the silicon wafer. The error bars have been calculated for three sequential wavefront measurements.

Table S.1:

Sn, Cu, Pb, and Zn spectral atomic emission lines used in the present work and their physical parameters

Species	Wavelength (nm)	E_i (cm^{-1})	E_k (cm^{-1})	$A_{ki} \cdot 10^8$ (s^{-1})	g_k	g_i
Sn (I)	270.65	1.691×10^3	3.862×10^4	0.500	5	3
	283.99	3.427×10^3	3.862×10^4	1.571	5	5
	286.33	0.000	3.491×10^4	0.579	3	1
	300.91	1.691×10^3	3.491×10^4	0.371	3	3
	303.41	1.691×10^3	3.464×10^4	1.890	1	3
	326.23	8.612×10^3	3.925×10^4	2.700	3	5
Cu(I)	296.12	1.12×10^4	4.496×10^4	0.038	8	6
	301.084	1.12×10^4	4.44×10^4	0.0129	6	6
	324.75	0.000	3.078×10^4	1.370	4	2
Pb(I)	280.19	1.0650×10^4	4.6328×10^4	1.081	5	7
	287.5	1.0650×10^4	4.544×10^4	0.304	5	5
	363.97	7.81×10^3	3.52×10^4	0.32	3	3
Zn(I)	334.50	3.289×10^4	6.277×10^4	1.700	7	5
	472.24	3.25×10^4	5.37×10^4	0.58	3	3