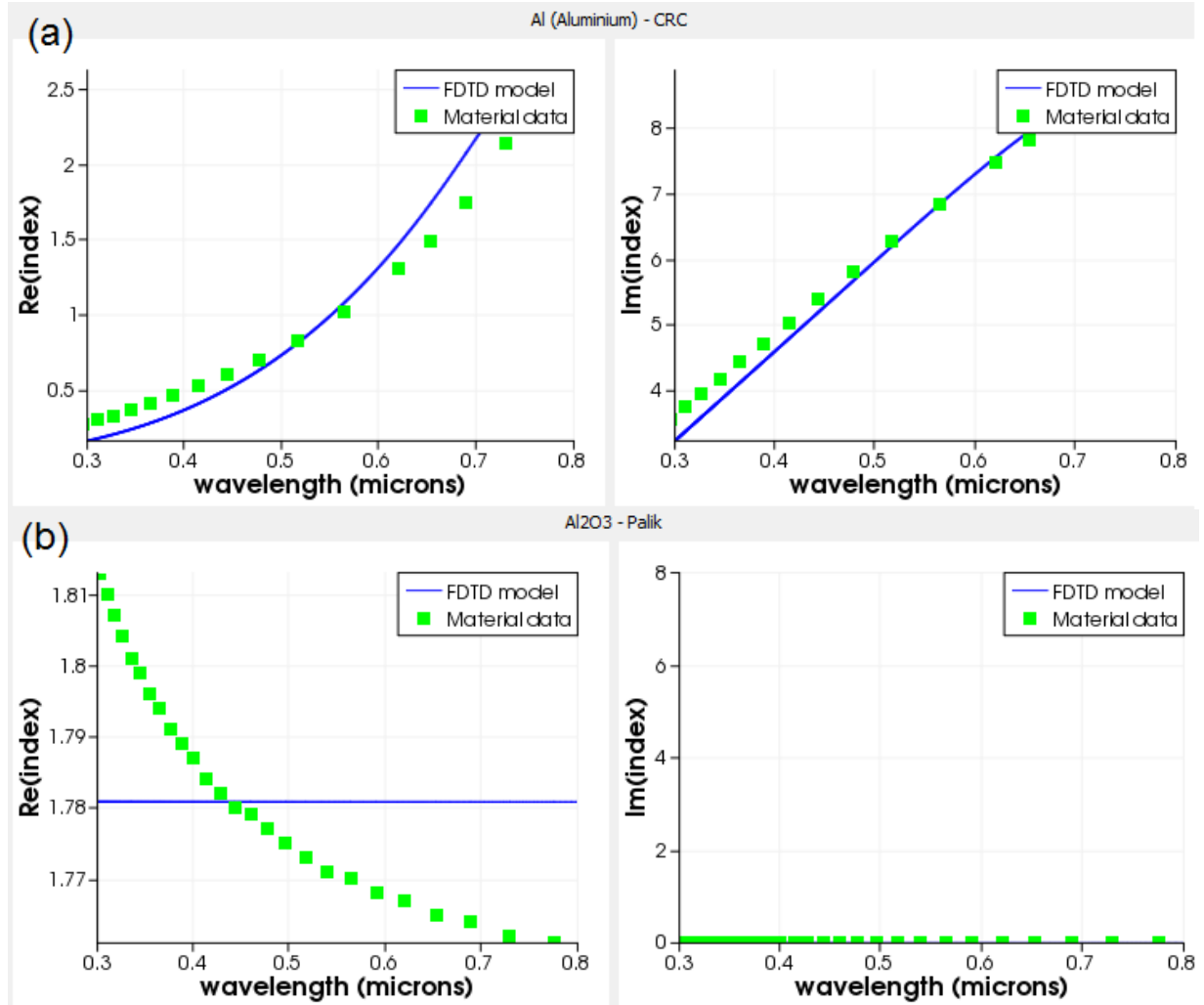


Supplemental Materials: refractive indices of materials used in this work

The materials used in this work include aluminum (Al), alumina (Al_2O_3), gold (Au), and cobalt (Co). Al, Al_2O_3 , and Au are available in the FDTD material database, and their refractive indices plots are shown in Fig. R2 (a), (b), and (c), respectively. Co is not in the original material database and is imported based on Table RII.



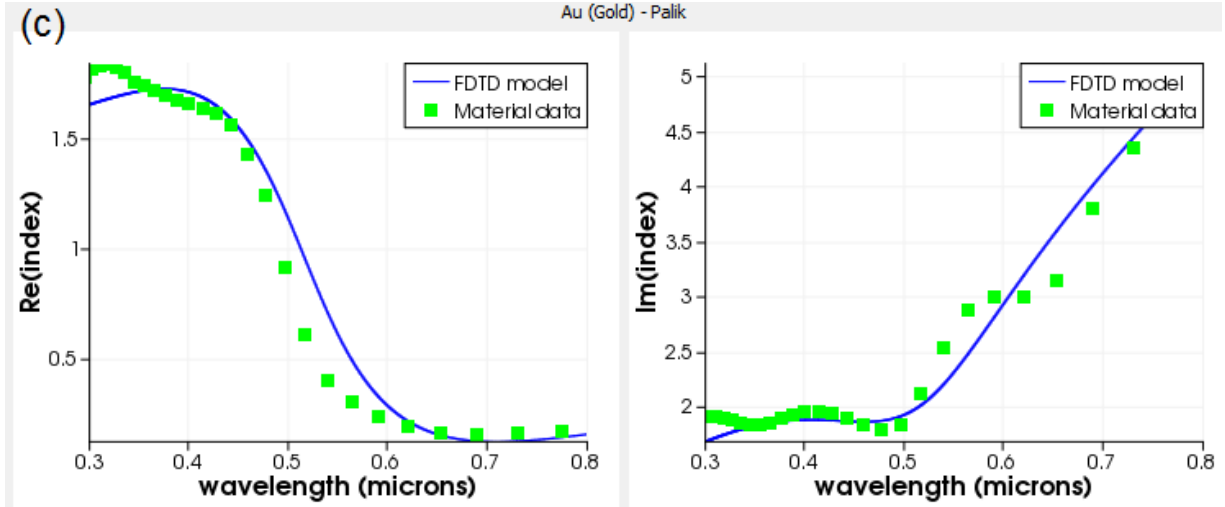


Fig. R2. Material refractive indices plots from FDTD material database: (a) Al (aluminum – CRC), (b) Al_2O_3 (alumina – Palik), and (c) Au (gold – Palik).

Table RII. Refractive indices of Cobalt used in this simulation work (lambda is the wavelength, unit: μm)

lambda	n	k
0.25	1.22	1.74
0.26	1.22	1.80
0.27	1.22	1.86
0.28	1.21	1.94
0.29	1.21	2.02
0.30	1.22	2.11
0.31	1.23	2.19
0.32	1.24	2.27
0.33	1.26	2.36
0.34	1.28	2.45
0.35	1.30	2.53
0.36	1.31	2.61
0.37	1.33	2.70
0.38	1.35	2.81
0.39	1.41	2.91
0.40	1.46	3.00
0.41	1.50	3.08
0.42	1.56	3.17
0.43	1.61	3.25
0.44	1.67	3.32
0.45	1.73	3.40
0.46	1.79	3.47

lambda	n	k
0.47	1.84	3.53
0.48	1.90	3.59
0.49	1.96	3.65
0.50	2.03	3.72
0.51	2.09	3.78
0.52	2.14	3.84
0.53	2.20	3.88
0.54	2.26	3.94
0.55	2.32	3.98
0.56	2.37	4.03
0.57	2.43	4.08
0.58	2.49	4.12
0.59	2.55	4.16
0.60	2.61	4.20
0.61	2.68	4.24
0.62	2.75	4.27
0.63	2.80	4.30
0.64	2.86	4.34
0.65	2.91	4.37
0.66	2.96	4.39
0.67	3.02	4.41
0.68	3.08	4.44

lambda	n	k
0.69	3.13	4.46
0.70	3.18	4.48
0.71	3.22	4.51
0.72	3.28	4.54
0.73	3.32	4.56
0.74	3.36	4.57
0.75	3.40	4.59
0.76	3.45	4.61
0.77	3.49	4.64
0.78	3.54	4.66
0.79	3.58	4.69
0.80	3.62	4.71
0.81	3.66	4.73
0.82	3.71	4.76
0.83	3.74	4.77
0.84	3.77	4.80
0.85	3.79	4.82
0.86	3.82	4.84
0.87	3.86	4.87
0.88	3.89	4.88
0.89	3.90	4.89
0.90	3.85	4.77