

Visualization 5. Patios of different quantities with respect to those in corresponding reference system, normalized by the corresponding thresholds of superradiance. (a) $r\delta R_{exc/em}/N$ normalized radiative rate enhancement ratios at excitation and emission, (b) rcQE/1 normalized corrected quantum efficiency ratio at emission, (c) rP_x factor/ N^2 normalized total fluorescence enhancement ratio and rP_xcQE/N^2 normalized objective function enhancement ratio, (d) average of the normalized ratios. Lines are to guide eyes and to uncover tendencies of depicted quantities in groups of (a, b, c, d) spherical and ellipsoidal nanoresonators, among them (a) $r\delta R_{exc/em}/N$ at normalized radiative rate enhancement ratios at the excitation and emission separately, (c) rP_x factor/ N^2 and rP_xcQE/N^2 normalized total fluorescence enhancement and objective function enhancement ratios separately.

Colors indicate, when certain quantity is larger in case of

4 6 number of emitters

coated bare type of nanoresonator

spherical ellipsoidal geometry of nanoresonator

	bare_4		coated_4		bare_6		coated_6	
normalized ratio	spherical	ellipsoidal	spherical	ellipsoidal	spherical	ellipsoidal	spherical	ellipsoidal
rcQE _{em} /1								
	1.000	1.033	1.000	1.045	1.010	1.038	1.000	1.020
rδR _{ex} /N								
	1.000	1.000	0.995	1.000	0.998	1.001	0.997	1.001
P ^N * _{ex} /P ¹ * _{ex} /N ²								
	1.000	1.000	0.995	1.000	0.998	1.001	0.997	1.001
rδR _{em} /N								
	1.005	1.032	1.003	1.042	1.005	1.035	1.002	1.021
P ^N _{em} */P ¹ * _{em} /N ²								
	1.005	1.032	1.003	1.042	1.005	1.035	1.002	1.022
rP _× /N²								
	1.004	1.031	0.998	1.042	1.004	1.036	0.999	1.023
rP _x cQE/N ²								
	1.009	1.065	0.998	1.089	1.009	1.075	1.001	1.047
rX								
	1.004	1.032	0.9986	1.044	1.005	1.037	0.9996	1.022

Table corresponding to Visualization 5. Ratios of cQE quantum efficiencies at emission, radiative rate enhancements, P_x factors and P_xcQE objective functions with respect to those of corresponding reference systems, normalized by the corresponding threshold of superradiance. N: number of color centers, $rcQE_{em}/1$: normalized corrected quantum efficiency ratio at emission, $r\delta R_{ex}/N$: normalized excitation rate enhancement ratio, $P^{N^*}_{ex}/P^{1^*}_{ex}/N^2$: normalized ratio of radiated powers at the excitation, $r\delta R_{em}/N$: normalized emission rate enhancement ratio, $P^{N^*}_{em}/P^{1^*}_{em}/N^2$: normalized ratio of radiated powers at the emission, rP_x/N^2 : normalized P_x factor ratio, rP_xcQE/N^2 : normalized objective function ratio, rX: average of the normalized ratios to qualify the extent of superradiance threshold overriding.