

Optical Temperature Sensors Based on Down-Conversion $\text{Nd}^{3+}, \text{Yb}^{3+}:\text{LiYF}_4$ Microparticles

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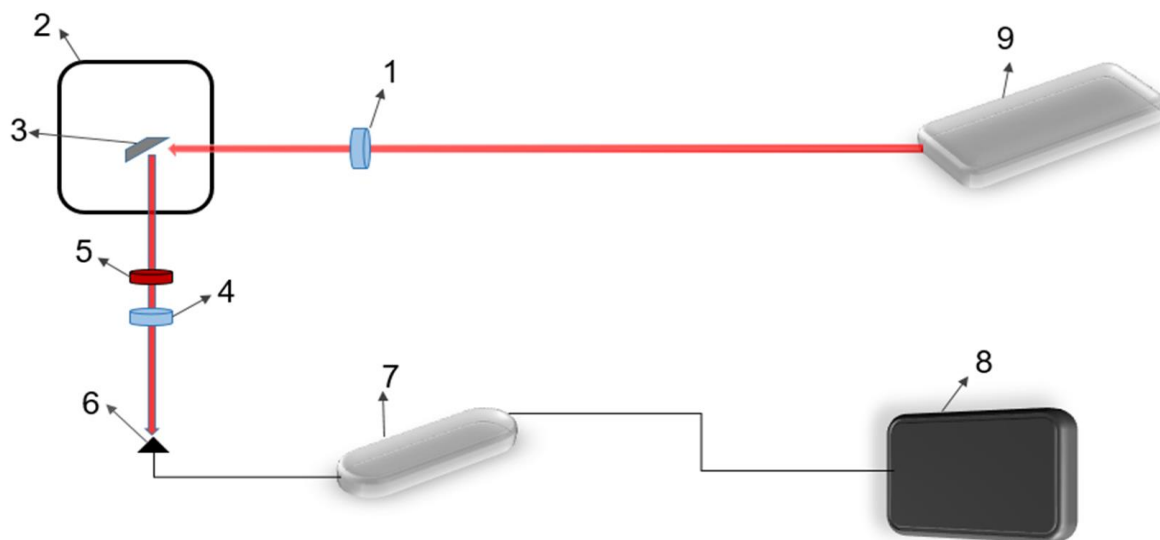


Figure S1. Experimental set-up. 1 and 4 are lenses, 2 and 3 are cryo-system and the sample, 5 – optical filter, 6 – waveguide, 7 – spectrometer, 8 – PC.

Table S1. Polynomial parameters for LIR

Model	Poly4
Equation	$y = A0 + A1*x + A2*x^2 + A3*x^3 + A4*x^4$
Plot	355
A0	$1,17197 \pm 0,08841$
A1	$-0,00975 \pm 0,00221$
A2	$1,09584E-4 \pm 1,90236E-5$
A3	$-4,36523E-7 \pm 6,79955E-8$
A4	$5,51741E-10 \pm 8,6131E-11$
Reduced Chi-	0,92649
R-Square (CO	0,99471
Adj. R-Square	0,99235
Polynomial parameters for LIR obtained under 355 nm excitation	
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Polynomial parameters for LIR obtained under 520 nm excitation	