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Supplementary Information

## Sn<sup>4+</sup> Doping Induced Novel Morphological Evolution in Zinc Titanate Heteronanostructures and Studies on Their Optical Properties

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Table S1 Summary on FESEM and EDX results for pure Zn-Ti glycolate and Sn<sup>4+</sup> doped Zn-Ti glycolates before and after

## calcination

Sample ID	[Sn:Zn:Ti] molar ratio used during synthesis	Sn <sup>4+</sup> substituted Zn-Ti glycolates			After calcination at 500 °C			After calcination at 700 °C		
		Dimensions of particles (µm)	[Sn:Zn:Ti] molar ratio from EDXA	Elemental distribution	Dimensions of particles (μm)	[Sn:Zn:Ti] molar ratio from EDXA	Elemental distribution	Dimensions of particles (μm)	[Sn:Zn:Ti] molar ratio from EDXA	Elemental distribution
ZT pure	0:0.66:0.33	Spheres (d = 0.8±0.2)	0:0.66:0.33	Uniform	Spheres (d = 0.8±0.2)	0:0.66:0.33	Uniform	Spheres (d = 0.8±0.2)	0:0.66:0.33	Uniform
ZTS-5	0.01:0.66:0.31	Rods (I = 10±2, w =0.8±0.2)	0.02:0.53:0.45	Uniform	Rods (I = 11±2, w =1.0±0.2)	0.02:0.52:0.46	Uniform	Rods (I = 8±2, w =0.9±0.1)	0.04:0.52:0.44	Uniform
ZTS-10	0.03:0.66:0.29	Rods (I = 9±2, w =2.0±0.3)	0.05:0.55:0.40	Uniform	Rods (I = 8±2, w =2.0±0.3)	0.04:0.52:0.44	Uniform	Rods (I = 9±2, w =2.5±0.2)	0.08:0.52:0.40	Uniform
ZTS-20	0.06:0.66:0.27	Rods (I = 10±2, 5.0±0.5), spheres (d= 0.8±0.1)	0.06:0.57:0.37	Uniform	Rods (l = 10±2, 4.0±0.5), spheres (d= 0.7±0.2)	0.06:0.57:0.37	Uniform	Rods (l = 11±2, 4.0±0.5), spheres (d= 0.8±0.2)	0.10:0.49:0.40	Uniform
ZTS-50	0.16:0.66:0.16	Hexagonal discs (side length = 2.5±0.2, thickness = 3.0±0.5)	0.21:0.53:0.26	Uniform	Hexagonal discs (side length = 3.0±0.2, thickness = 3.0±0.5)	0.26:0.50:0.24	Uniform	Hexagonal discs (side length = 2.0±0.2, thickness = 2.0±0.5)	0.22:0.56:0.21	Uniform