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Supplementary Materials: A Scintillating One-Dimensional Coordination Polymer based on Cadmium(II), N,N′-(1,4-phenylenedicarbonyl)diglycinate and 2,2′-bipyridine: Crystal Structure, Hirshfeld Surface Analysis and Luminescence Lifetime Properties

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Table S1. Hydrogen-bond geometry (Å, °).

D—H···*A*	*d*(*D*—H)	d(H···*A*)	*d*(*D*···*A*)	∠*D*—H···*A*
O7—H7*A*···O12	0.84 (2)	1.97 (2)	2.801 (4)	171 (5)
O7—H7*B*···O11^{iv}	0.86 (5)	1.96 (5)	2.810 (5)	169 (5)
O8—H8*A*···O2	0.84 (2)	1.96 (2)	2.800 (4)	176 (6)
O8—H8*B*···O3^{v}	0.87 (6)	1.96 (6)	2.830 (4)	177 (5)
O9—H9*A*···O5^{vi}	0.88 (6)	1.93 (6)	2.779 (4)	161 (5)
O9—H9*B*···O10	0.86 (2)	1.96 (3)	2.782 (5)	159 (5)
O10—H10*A*···O1	0.88 (6)	2.01 (6)	2.856 (5)	160 (7)
O10—H10*B*···O4	0.86 (2)	2.66 (7)	3.176 (6)	120 (6)
O11—H11*A*···O10	0.85 (2)	2.48 (6)	3.109 (7)	131 (6)
O11—H11*B*···O12	0.86 (2)	2.03 (3)	2.869 (5)	162 (8)
O12—H12*A*···O6	0.88 (2)	1.94 (2)	2.818 (4)	175 (5)
O12—H12*B*···O9^{iv}	0.87 (1)	2.06 (4)	2.776 (5)	139 (5)
N3—H3···O9	0.83 (4)	2.14 (4)	2.953 (4)	167 (4)
N4—H4···O8^{vii}	0.86 (4)	2.06 (4)	2.872 (4)	158 (4)
C7—H7···O2^{viii}	0.94	2.41	3.290 (4)	156
C10—H10···O7	0.94	2.66	3.281 (5)	124

Symmetry codes: (iv) -x+1, -y+2, -z+1; (v) -x+1, -y+2, -z; (vi) x+1, y, z; (vii) x-1, y-1, z; (viii) -x, -y+2, -z.

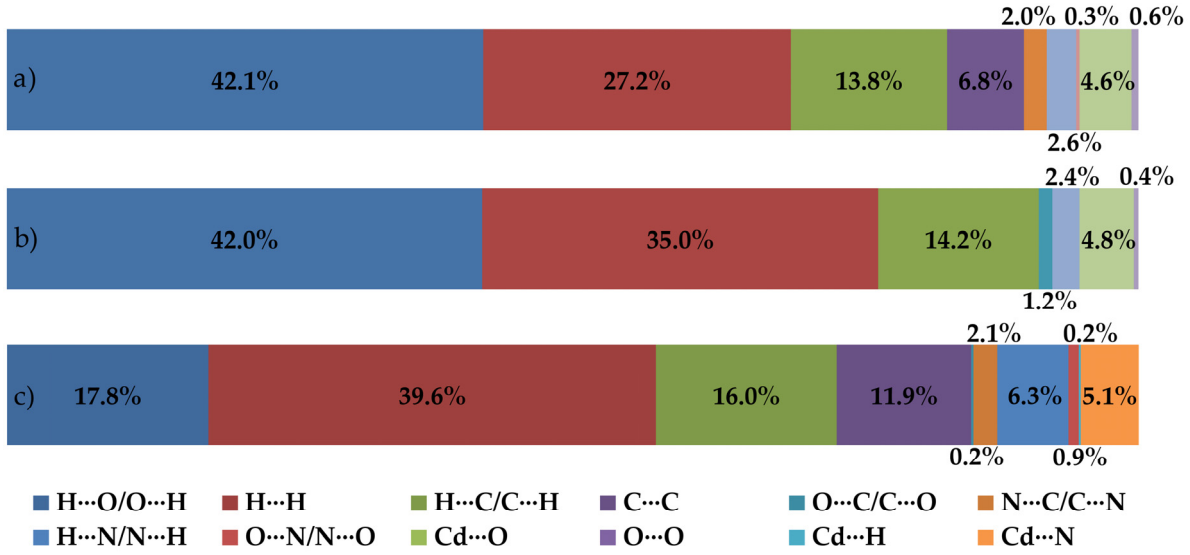


Figure S1. The percentage contributions of the different close contacts to the total HS of (**a**) the N,N`-(1,4-phenylenedicarbonyl)diglycinate ligand L1 as well as (**b**) the N,N`-(1,4-phenylenedicarbonyl)diglycinate ligand L2 and (**c**) 2,2`-bipyridine.

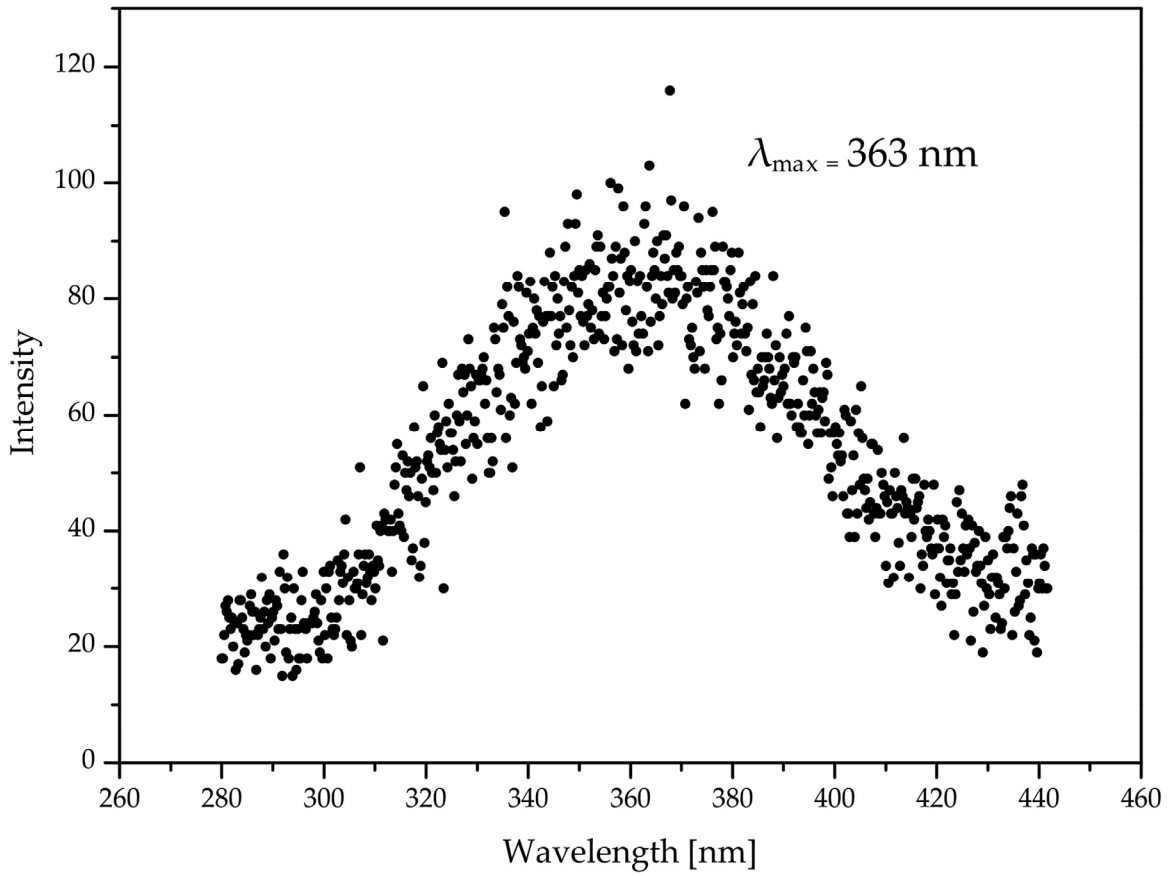


Figure S2. Spectrum of X-ray (photon energy ~13 – 14 keV, ~80 ps pulse width) excited luminescence of the Cd(II) coordination polymer.

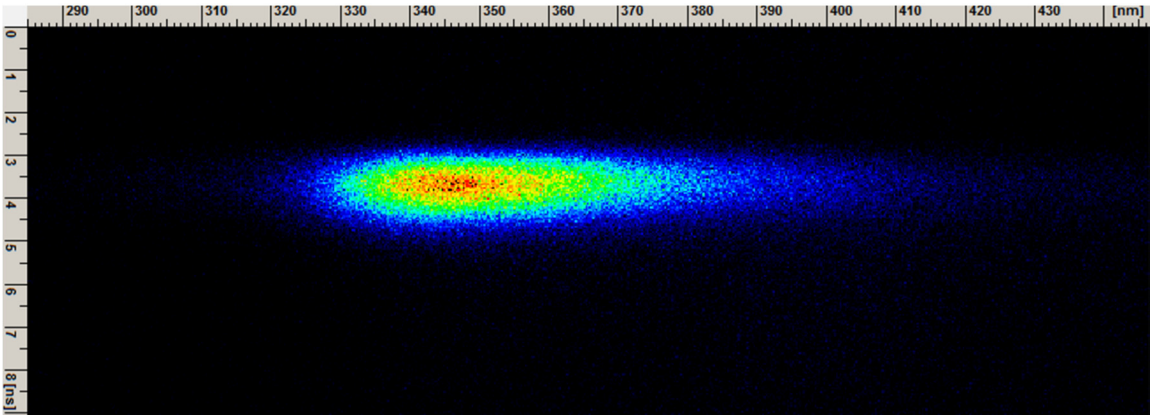


Figure S3. Time-resolved streak image of UV-light (λ_{ex} = 250 nm, 900 ps pulse width, 0.4 mW) induced fluorescence of the Cd(II) coordination polymer and an accumulation time of 180 minutes at a repetition rate of 10 MHz (X-axis: wavelength; Y-axis: time).

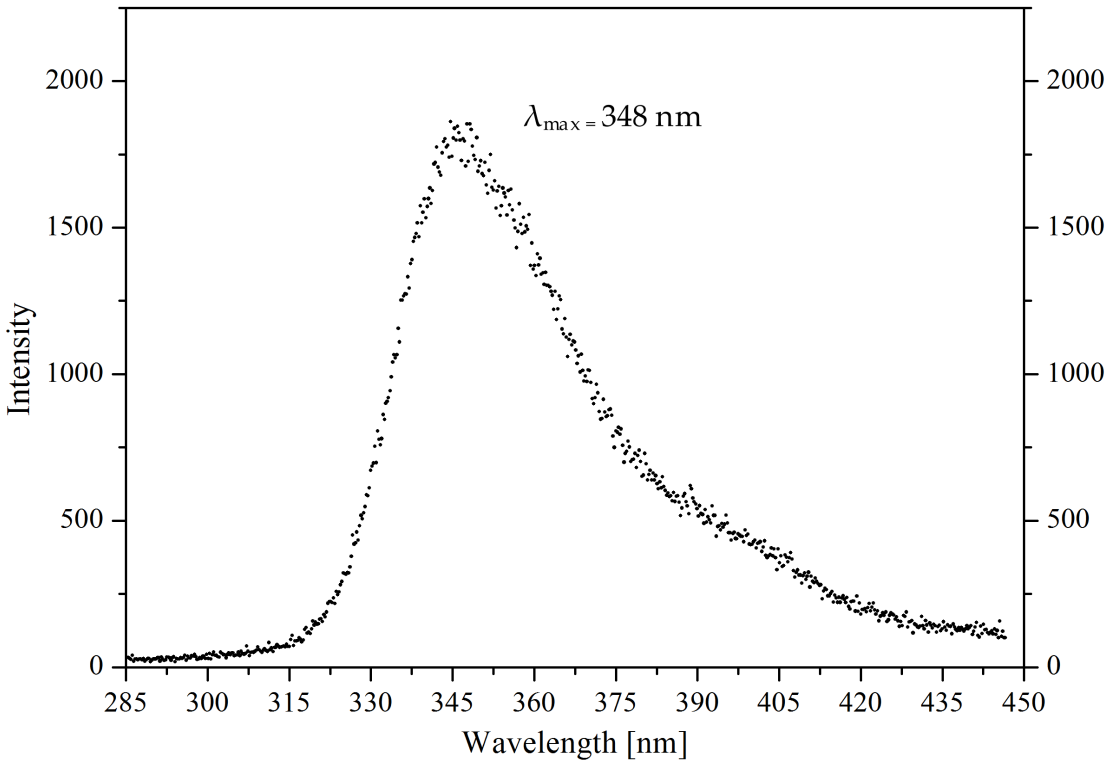


Figure S4. Spectrum of UV-light (λ_{ex} = 250 nm, 900 ps pulse width, 0.4 mW) induced fluorescence of the Cd(II) coordination polymer.

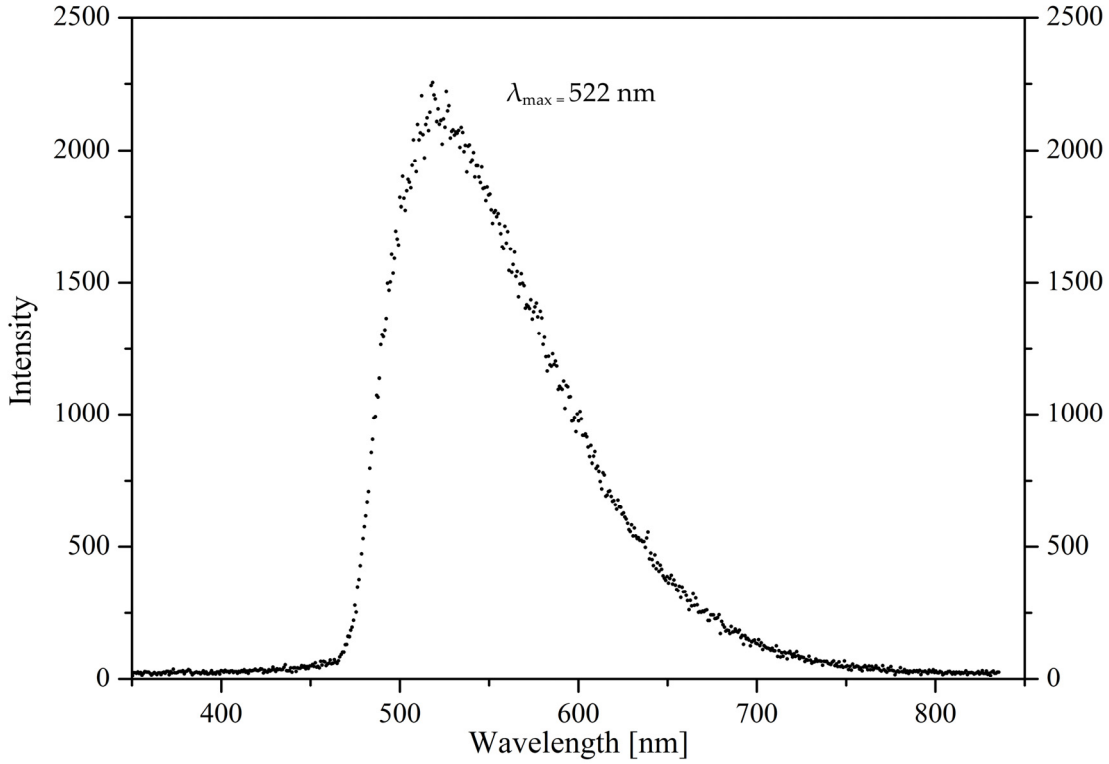


Figure S5. Spectrum of laser (λ_{ex} = 444 nm, 205 mW, 58 ps pulse width) induced fluorescence of the Cd(II) coordination polymer.

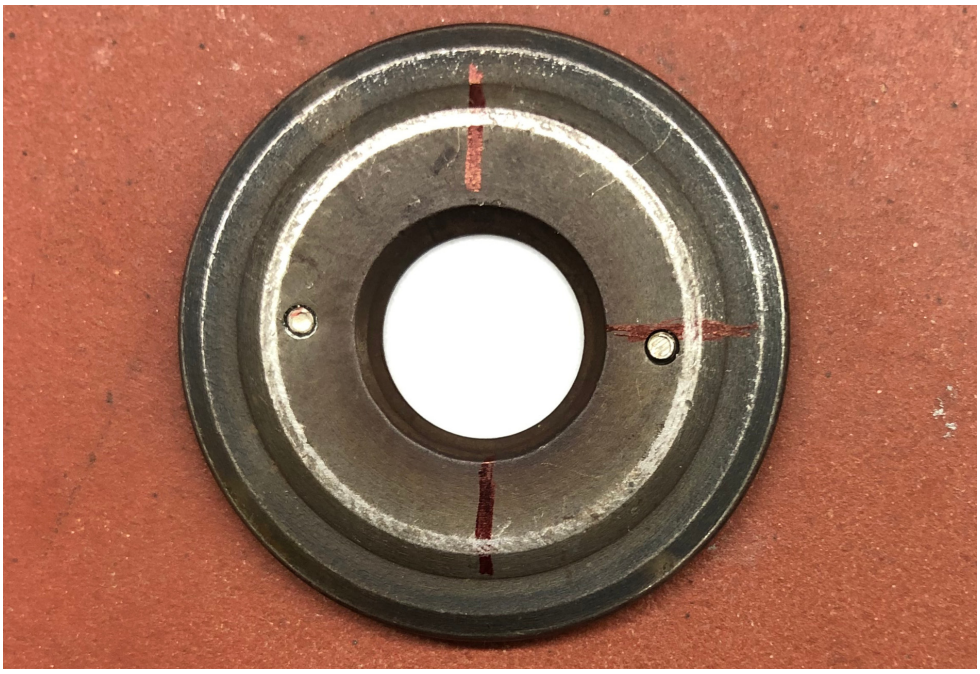


Figure S6. Sample holder and pellet of the Cd(II) coordination compound for photoluminescence and scintillation measurements.