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Photo-CIDNP studies on reaction centers of rhodobacter sphaeroides

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List of Abbreviations

1D	One dimensional
2D	Two dimensional
ALA	δ -Aminolevulenic acid
B	Accessory bacteriochlorophyll
BChl	Bacteriochlorophyll
BPhe, Φ	Bacteriopheophytin
C	Carotenoid
CIDNC	Chemically induced dynamic nuclear coherence
C-L	Carbon atom on cofactor P _L
C-M	Carbon atom on cofactor P _M
CP	Cross polarization
CSA	Chemical shift anisotropy
DD	Differential decay
DFT	Density functional theory
DR	Differential relaxation
DZP	Double zeta polarization
EDTA	Ethylene diamino tetra acetate
EPR	Electron paramagnetic resonance
H	Protein subunit H of the reaction center
His	Histidine
IUPAC	International union of pure and applied chemistry
L	Protein subunit L of the reaction center
LDAO	<i>N,N</i> -dimethyldodecylamine- <i>N</i> -oxide
LH I	Light harvesting complex I
LH II	Light harvesting complex II
M	Protein subunit M of the reaction center
MAS	Magic-angle spinning
MRI	Magnetic resonance imaging
MRFM	Magnetic resonance force microscopy
NMR	Nuclear magnetic resonance
OD	Optical density
ODV	Optical density per volume
P	Special pair, primary electron donor

Photo-CIDNP	Photochemically induced dynamic nuclear polarization
PS I	Photosystem I
PS II	Photosystem II
PSU	Photosynthetic unit
Q	Ubiquinone
<i>Rb.</i>	<i>Rhodobacter</i>
RC	Reaction center
RFDR	Radio frequency driven recoupling sequence
TPPM	Two pulse-phase modulation
TSM	Electron-electron-nuclear three spin mixing
TZP	Triple zeta polarization
WT	Wild type
ZORA	Zero order regular approximation