

## ABBREVIATION

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AAC	Azide–alkyne cycloaddition	mol%	Mole percent
ARF	Amberlite resin formate	MW	Microwave
°C	Degree Celsius	NHC	<i>N</i> -heterocyclic carbene
CCs	Coordination clusters	NMR	Nuclear magnetic resonance
d	doublet	NPs	Nanoparticles
dd	doublet of a doublet	nZVI	Nanoscale zerovalent iron
DMF	Dimethyl formamide	OWCF	On–water catalyst–free
DTCE	Dithiocarbamate esters	p–XRD	Powder X–ray diffraction
DVB	Divinyl benzene	ROP	Ring opening polymerization
EDX	Energy–dispersive X–ray	s	singlet
GAC	Granular activated carbon	SEM	Scanning electron microscope
h	hour/hours	SDS	Sodium dodecyl sulfate
HOCs	Halogenated organic compounds	t	triplet
HRMS	High resolution mass spectrometry	TBAB	<i>n</i> -tetrabutyl ammonium bromide
MAOS	Microwave–assisted organic synthesis	TEM	Transmission electron microscope
MHz	Mega hertz	THF	Tetrahydrofuran
min	minute	TMEDA	<i>N,N,N',N'</i> -tetramethylethylenediamine
MOF	Metal organic framework	TOF	Turnover frequency