

ABBREVIATIONS

AFGNS	Amine functionalized graphite nanosheet
APTES	3-Aminopropyltriethoxysilane
ARF	Amberlite resin formate
Bn	Benzyl
Boc	Tert Butyloxycarbonyl
br	broad
°C	Degree celsius
CDC	Cross dehydrogenative coupling
CMC	Carboxymethylcellulose
CMG	Chemically modified graphene
CNT	Carbon nanotube
COD	1,5-Cyclooctadiene
Cy	Cyclohexyl
D	Dimensional
d	Doublet
DIB	(diacetoxyiodo)benzene
DME	1,2-Dimethoxyethane
DMF	<i>N,N</i> -Dimethyl formamide
DMSO	Dimethyl sulfoxide
dox	Doxorubicin
DPEphos	Bis[(2-diphenylphosphino)phenyl] ether
DVB	Divinyl benzene
FAD	Flavine adenine dinucleotide
FLG	Few layer graphene
GAA	Guanidine acetic acid
GO	Graphene oxide
h	hour
HRMS	High resolution mass spectroscopy

Hz	Hertz
IL	Ionic liquid
IPG	ionic polymer doped graphene
ⁱ Pr	Isopropyl
LBL	Layer-by-layer
LIB	Lithium ion battery
m	Multiplet
MCR	Multicomponent reaction
mg	Milligram
MHz	Mega hertz
min	minute
mL	millilitre
mmol	Milli mole
MOF	Metal organic framework
MS	Molecular sieves
NAD	Nicotinamide adenine dinucleotide
NDIDA	Naphthalenediimide diamine
NHC	<i>N</i> -Heterocyclic carbene
NMP	<i>N</i> -Methyl pyrrolidone
NP	Nanoparticle
PANI	Polyaniline
PBA	Pyrenebutyric acid
PBASE	Pyrene butanoic acid succidymidyl ester
PEG	Polyethylene glycol
ppm	Parts per million
POSS	Polyhedral oligomeric silsequioxane
PRGO	Photoreduced graphene oxide
PTC	Phase transfer catalyst
q	Quartet
RGO	Reduced graphene oxide

rpm	Revolution per minute
RT	Room temperature
s	Singlet
SEM	Scanning electron microscopy
SPANI	Sulfonated polyaniline
t	Triplet
^t Bu	Tertiary butyl
TCNQ	7, 7, 8, 8-Tetracyanoquinodimethane
TfGnP	Triazine functionalized graphene nano platelet
TFN	Thin film nanocomposite
THF	Tetrahydrofuran
TLC	Thin layer chromatography
TMS	Tetramethyl silane
TMSI	Trimethylsilyl iodide
TON	Turn over number
Ts	Tosyl or <i>p</i> -toluenesulfonyl
wt %	Weight percent
ZIF	Zeolitic imidazole framework