

ABBREVIATIONS

AAC	Azide alkyne cycloaddition
AFGONs	Amine functionalized graphene oxide nanosheets
API	Active pharmaceutical ingredients
APTES	3-(Aminopropyl)triethoxysilane
Br	broad
°C	Degree Celsius
CDC	Cross dehydrogenative coupling
CFL	Compact fluorescent lamp
CMG	Chemically modified graphene
CNT	Carbon nanotube
CVD	Chemical vapour deposition
D	Dimensional
d	Doublet
dd	Doublet of doublet
DDQ	2,3-Dichloro-2,6-dicyanobenzoquinone
DHP	Dihydropyridine
DME	1,2-Dimethoxyethane
DMF	N,N-Dimethylformamide
DMSO	Dimethyl sulfoxide
EDS	Energy dispersive X-ray spectroscopy
eV	Electron volt
FT-IR	Fourier transform infrared spectroscopy
GO	Graphene oxide
h	hour
HPLC	High performance liquid chromatography
HRMS	High resolution mass spectrometry
Hz	Hertz
ICP-AES	Inductively coupled plasma atomic emission spectroscopy
IL	Ionic liquid
<i>i</i> -Pr	Isopropyl
LED	Light emitting diode

Lit.	Literature
m	Multiplet
MCR	Multi-component reaction
mg	Milligram
MHz	Mega hertz
min	minute
mL	millilitre
mmol	millimole
mol%	Mole percent
MOF	Metal organic framework
MW	Microwave
NAC	Nanoporous activated carbon
NHC	N-heterocyclic carbene
NMR	Nuclear magnetic resonance spectroscopy
NPs	Nanoparticles
PEG	Polyethylene glycol
ppm	Parts per million
PTC	Phase transfer catalyst
q	Quartet
rGO	Reduced graphene oxide
rpm	Revolution per minute
r.t.	Room temperature
s	Singlet
SAED	Selected area electron diffraction patterns
SDS	Sodium dodecyl sulfate
SEM	Scanning electron microscopy
SET	Single electron transfer
t	Triplet
<i>t</i> -Bu	<i>Tert</i> -butyl
<i>t</i> -BuONO	<i>Tert</i> -butylnitrite
TBHP	<i>Tert</i> -butylhydroperoxide
TBAB	Tetrabutylammonium bromide
TBAI	Tetrabutylammonium iodide

TEM	Transmission electron microscopy
TEOS	Tetraethylorthosilicate
THF	Tetrahydrofuran
TLC	Thin layer chromatography
TMS	Tetramethylsilane
TON	Turnover number
Ts	Tosyl
XPS	X-ray photoelectron spectroscopy
XRD	X-ray diffraction
VACE	Value added chemical entities

