

LIST OF ABBREVIATION

ALP	alkaline phosphatase
AP	3-aminopropanol
ASTM	American society for testing and materials
b.p.	boiling point
BD	1,4-butanediol
BMPA	2,2-bis(hydroxymethyl)propionic acid
CD	carbon dot
CD@HAp	carbon dot decorated hydroxyapatite
CDP	carbon dot peptide bio-nano hybrid
CDP- <i>f</i> -PU	carbon dot/peptide fabricated waterborne polyurethane
CHDI	1,4-cyclohexyl diisocyanate
CNT	carbon nanotube
DABCO	1,4-diazabicyclo[2,2,2]octane
DBTDL	dibutyltin dilaurate
DEA	diethanolamine
DHA	dihydroxyamine
DMAc	dimethylacetamide
DMEM	Dulbecco's modified eagle's medium
DMSO	dimethyl sulfoxide
DPBS	Dulbecco's phosphate buffered saline
DSC	dynamic scanning calorimetry
EDC	N-(3-dimethylaminopropyl)-N'-ethylcarbodiimide hydrochloride
EDX	electron dispersive X-ray
FBS	fetal bovine serum
FFT	fast Fourier transform
FTIR	Fourier transform infrared
GO	graphene oxide
GPC	gel permeation chromatography
HAp	hydroxyapatite
HBPU	hyperbranched polyurethane

HDI	1,6-hexamethylene diisocyanate
HE	hyperbranched epoxy
HEPES	2-[4-(2-hydroxyethyl)piperazin-1-yl]ethanesulfonic acid
HMDI	hydrogenated diphenyl methylene diisocyanate
HPUU	hyperbranched poly(urea urethane)
HRTEM	high resolution transmission electron microscopy
ICDD	international center for diffraction data
IFFT	inverse fast Fourier transform
IPDI	isophorone diisocyanate
LED	light emitting device
L-LDI	L-lysine diisocyanate
LPU	linear polyurethane
LPUU	linear poly(urea urethane)
m.p.	melting point
m.w.	molecular weight
MDI	diphenyl methylene diisocyanate
MMT	montmorillonite
M_n	number average molecular weight
MTCC	microbial type culture collection
MTT	3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolium bromide
M_w	weight average molecular weight
MWPU	modified waterborne hyperbranched polyurethane
NDI	naphthalene diisocyanate
NiFe ₂ O ₄ @rGO	nickel ferrite decorated reduced graphene oxide
NMR	nuclear magnetic resonance
OD	optical density
O-TDI	O-tolidine diisocyanate
PAA	poly(amido amine)
PANi	polyaniline
PBG	poly(butylene oxide) glycol
PBS	phosphate buffered saline
PDI	pentamethylene diisocyanate

PDI	polydispersity index
PEG	poly(ethylene oxide) glycol
PL	photoluminescence
PPG	poly(propylene oxide) glycol
PTMG	poly(tetra methylene oxide) glycol
PU	polyurethane
PUNC	polyurethane nanocomposite
PUP	polyurethane prepolymer
rGO	reduced graphene oxide
RP-HPLC	reverse phase high pressure liquid chromatography
RT-PCR	reverse transcription polymerase chain reaction
s.p.	specific gravity
SAED	selected area electron diffraction
SD	standard deviation
SEM	scanning electron microscopy
SGOT	serum glutamic oxaloacetic transaminase
SGPT	serum glutamic pyruvic transaminase
Sulfo-NHS	N-hydroxysulfosuccinimide
TA	tannic acid
TCPS	tissue culture polystyrene
TDI	toluene diisocyanate
TEA	triethylamine
TEM	transmission electron microscopy
T_g	glass transition temperature
TGA	thermogravimetric analyzer
THF	tetrahydrofuran
T_m	melting temperature
TMDC	transition metal dichalcogenide monolayers
TMO	transition metal oxide nano-sheet
TPUU	thermosetting hyperbranched poly(urea urethane)
T_{trans}	transition temperature
UTM	universal testing machine
UV	ultra-violet

VOC	volatile organic compound
WPU	water borne polyurethane
XDI	xylene diisocyanate
XRD	X-ray diffraction