

## SUBJECT INDEX

(-)-EGCG .....	405	clusters .....	234
(E)-cyclooct-4-enol.....	228	colloidal nanosilver AgNPs.....	365
<sup>1</sup> H-NMR.....	240	comb-shaped polymer .....	475
2,2,4-trimethyl-1,2-dihydroquinoline .....	355	complexed polymer blend electrolytes .....	5
absorption .....	412	composites.....	61, 249
accumulation.....	211	convective boundary condition .....	343
activated carbon.....	265, 287	corrosion.....	142
activation energy.....	475	corrosion resistance .....	313
activation of carbonizate .....	265	coumarin.....	10
activity .....	471	crumb rubber .....	33
additive scheme .....	240	dairy products.....	26
adhesin FimH.....	327	density .....	61
ADMET .....	327	design .....	38
adsorption .....	188, 287	detoxification proteins.....	480
Ambit.....	240	DFT .....	327, 456
ammonia .....	412	Dielectric properties .....	5
analytical model.....	399	diffuse reflectance spectroscopy .....	269
ANFIS.....	78	diode characteristics .....	158
Anolyte .....	234	discharge capacity .....	447
anti-arthritis .....	66	DNES .....	234
antibacterial .....	10	doping concentration.....	158
anti-cancer activity.....	321	DPPH• .....	307
antifungal .....	10	DSC.....	475
anti-inflammatory .....	66	edible coatings.....	91
antimicrobial activity.....	365	electrical .....	429
antioxidant .....	307, 405	electrocatalyst.....	72
antioxidant ability .....	275	electrochemical .....	99
APTES.....	464	electrochemical techniques .....	142
Aqueous TiO <sub>2</sub> .....	456	electronic polarizability.....	18
aspen .....	38	electronic transitions .....	196
<i>Astragalus gombo</i> .....	307	electrophoretic deposition .....	313
barium sulfate .....	453	element composition .....	371
barley .....	380	ELISA .....	380
Bi-doped zinc oxide nanoparticles.....	83	energy gap .....	399
binding strength .....	294	energy value .....	180
bio-fuel .....	78, 105	enthalpy.....	188
biomass .....	78	entropy generation.....	343
biomaterials .....	142	essential elements.....	211
bismuthate glasses .....	18	fatty acid composition .....	105
bitumen .....	33, 294	fatty acids .....	279
blending .....	46	fatty acids profile.....	26
boiling point.....	46	Fe <sub>3</sub> O <sub>4</sub> .....	174
borate glasses.....	18	feed strategy .....	38
calciolangbeinite .....	486	flashpoint.....	46
calcium pyrophosphate .....	486	fluorescent indication .....	46
carbon dioxide .....	412	Fukui function .....	196
carbonization .....	265	gallium .....	269
Catholyte.....	234	gas chromatographic characterization .....	355
cerium oxide .....	127	graphene .....	249
characterization.....	83	green tea .....	405
charcoal.....	78	growth .....	105
chemical activation .....	287	growth rate models .....	418, 436
chemical bath deposition .....	99	H <sub>2</sub> O <sub>2</sub> scavenging activity.....	66
chemical bath deposition technique .....	158	heat transfer.....	163
chemical bonding.....	18	heavy metal .....	211
chemical shifts .....	240	heterogeneous catalysis .....	456
chitosan.....	91	heterojunction.....	158
Click chemistry.....	228	hGSTP1-1.....	480

HPLC-DAD .....	55	nonlinear optical materials .....	18
husk.....	429	nutritional characteristics .....	279
hydrogen bonds.....	234	open-source .....	240
hydrogen evolution .....	72	overpotential.....	72
hydrogen generation .....	188	Paal-Knorr reaction .....	174
hydrolyzed lignocellulosic material.....	287	particle size.....	471
hydroxyapatite .....	453	PASS .....	327
ibuprofen derivatives .....	66	pennes model.....	163
ICP-MS .....	371	pesticides .....	55
incineration/combustion .....	180	phenol.....	127
inclusion complex.....	196	Phosmet.....	456
indium .....	269	photocatalytic .....	453
inhibition.....	142	photocatalytic degradation .....	83
interaction energies.....	196	photocatalytic reactor .....	442
<i>in-vitro</i> .....	66	photoisomerization .....	228
Ionic and electrical conductivity.....	5	photovoltaic module.....	429
IR spectra.....	18	Poly(ethylene-alt-maleic anhydride) copolymer .....	471
iron phosphide .....	72	polymer-coated aggregate .....	294
irradiation.....	26	polymorphism .....	480
<i>Juglans regia</i> .....	279	potassium calcium phosphate.....	486
jute .....	429	potassium hydrogen sulfate .....	486
kaolin .....	464	potassium sulfate .....	486
kerosene .....	46	process integration .....	38
<i>Kluyveromyces marxianus var. lactis</i> MC 5 yeast .....	418, 436	PROMETHEE II method .....	436
Langmuir-Hinshelwood.....	188	protein profile.....	26
LC-MS/MS .....	405	Prussian Blue.....	99
lipid extraction methods .....	105	PTFE .....	447
lipophilicity.....	66	pumpkins.....	275
lyophilization .....	26	PVD method.....	424
maize.....	380	pyrolysis .....	475
Marmara sea .....	211	pyrrole .....	174
mass transfer.....	412	reaction coupling.....	38
melon .....	91	rhenium .....	287
MEP.....	327	rice husk and straw .....	265
MHD Walters-B fluid .....	343	<i>Scenedemus</i> sp.....	105
microorganisms .....	91	semiconductor devices .....	158
mineral waters.....	371	silanization .....	464
mixed-ligand complex .....	321	silica nanoparticles .....	33
modelling .....	418	simulated body fluids .....	471
modification process.....	33	SNP .....	480
monitoring .....	134	software .....	240
MPTMS .....	464	solid-phase extraction.....	269
multi walled carbon nanotubes .....	99	solvothermal synthesis .....	72
multi-criteria decision analysis .....	436	sonocatalysis .....	127
multilayer coating .....	424	sorbent.....	265
multivariate statistics .....	371	spectrophotometry.....	134
municipal solid wastes (MSW).....	180	spring waters .....	371
mycotoxins.....	380	stability.....	471
NaIO <sub>4</sub> salt.....	5	stability test .....	55
nano biocomposite .....	313	statistical criteria .....	418
nanocatalyst .....	174	structural investigations.....	61
nanocomposites .....	453	structure-function relationship .....	480
nanoparticles.....	188, 412	sunflower.....	380
naphthalene.....	46	surface treatment .....	216
natural rubber-based composites .....	355	Taguchi-Grey methodology .....	442
NES.....	234	teflonized carbon blacks.....	447
NiO nanoparticles .....	321	tetrazole.....	10
non-biodegradable .....	294	TGA-DTA .....	475
non-covalent interactions.....	196	thermal .....	429
		thermal damage .....	163

thermal radiation.....	343	viscous dissipation .....	343
thermal stability.....	249	waste plastic .....	294
thermochemical conversion.....	78	waste to energy.....	180
thin layer.....	399	wastewater and surface water.....	134
three-layer skin model .....	163	water purification .....	442
thymidine.....	327	water samples .....	55
TiO <sub>2</sub> .....	174	wax blends.....	355
TiO <sub>2</sub> nanofiller.....	5	wear intensity .....	424
titanium dioxide.....	453	wheat .....	380
total polyphenol content .....	275, 307	XRD .....	321
trace element.....	405	xylene cyanol FF dye .....	83
transmittance curve.....	399	zeolite .....	464
tricalcium phosphate.....	486	zeta potential .....	471
TS .....	456	zinc coatings.....	216
turpentine.....	46	zinc phosphating.....	216
type 316L stainless steel .....	313	zirconium oxide.....	127
ultraviolet-visible spectroscopy .....	399	Zn electrode.....	447
unsteady inclined stretching sheet .....	343	zone of inhibition .....	10
utilization of wastes .....	180		