

## SUBJECT INDEX

1,1,4,4-tetramethyl-1,4-dioctylethylenediammonium bromide .....	348	carbon dioxide methanation .....	342
2,5-dihydro-1,2-oxaphospholes .....	121	carbonyldiimidazole .....	481
2,5-dihydrofurans.....	121	carborundum .....	342
2-cyano pyrazine.....	493	carboxyhemoglobin.....	142
2-methylpyrazine .....	493	catalysts .....	316
3, 3'-dihydroxy benzidine.....	47	cellulose containing wastes .....	379
3-amino coumarin.....	47	CFD.....	561
3D printing.....	29	CFD-DEM.....	396
4-Phosphorylated 5-hydroxy-5-methylhexa-2,3-dienoates .....	121	<i>Chamaecyparis</i> Spach.....	543
Acid mixture of HNO <sub>3</sub> +HCl+HF.....	203	chemical composition.....	428, 460
<i>Acinetobacter baumannii</i> .....	114	chemometric .....	159
additive manufacturing .....	29	CO hydrogenation .....	320
aerobic digestion .....	214	CO <sub>2</sub> absorption.....	435
affective disorder .....	488	CO <sub>2</sub> -TPD.....	81
agitation .....	214	coiled tube .....	387
air purification .....	305	conductometry.....	179
air-inducing reactor.....	208	Co-Pd catalysts.....	320
all-solid-state .....	448	copolymers .....	129
alumina .....	300, 342	COSMO-RS .....	532
ammoxidation .....	493	coumarin.....	18, 237
Amphotericin B .....	549	coumarin chalcones.....	18
anaerobic digestion .....	102, 214	<i>Crataegus monogyna</i> subsp. <i>Monogyna</i> .....	14
Anatolian water buffalo .....	230	critical speed.....	208
Angiotensin II .....	272	Cu serum levels .....	76
anion exchange membrane.....	86	<i>Cupressus</i> L.....	543
antibacterial activity.....	460	cyclohexanol .....	291
antifeedant activity.....	250	date seed powder .....	90
antimicrobial.....	237	decomposition .....	316
antimicrobial peptides.....	284	deoxyribonucleic acid .....	47
antimicrobial screening.....	18	design .....	114
antimutagenic.....	14	dexamethasone .....	404
antioxidant .....	14, 237, 543	DFT .....	440
antiproliferative activity.....	543	diethanolamine .....	81
anxiety .....	488	diethylene glycol (DEG) .....	98
artificial core.....	56	diffusion of lithium .....	5
artificial neural network (ANN) .....	102	di-site phase-transfer catalyst.....	348
atomic absorption analysis.....	76	dissolved oxygen.....	208
azido alcohol.....	335	DMA .....	129
azo .....	481	doping.....	374
Bacteneicin .....	284	drift of lithium ions .....	5
bacterial community .....	379	DRIFTS .....	320
benzothiazole .....	9	drug binding .....	404
bidentate salicylaldehyde ligand .....	68	dsmcFoam solver .....	467
biodegradation .....	379	dual solution.....	259
biofilm .....	114	electrochemical .....	374
biogas.....	214	electrochemical cell design .....	245
biomarker assemblage .....	62	electromagnetic properties .....	297
biomass .....	316	electron paramagnetic resonance spectra .....	47
bioreactor.....	214	electrophilic cyclization .....	121
Bi-plot.....	159	enthalpy.....	549
bone density .....	76	entropy of micellization .....	179
bone tissue .....	203	enzymatic hydrolysis.....	278
bromide determination.....	448	epoxide .....	335
bubble column .....	561	equilibrium .....	189
buffalo milk .....	230	ethyl L-lactate.....	9
caprylic acid.....	98	ethylene glycol (MEG).....	98
		experimental models .....	138
		exposure time .....	98

extract enrichment .....	525	manganese catalyst .....	300
fast-growing tree .....	278	mass transfer coefficient.....	208
fatty acids.....	230	maturity .....	62
fermentable sugars .....	278	Me – air accumulator.....	245
fixed bed .....	396	mechanism .....	348
flavonoids .....	197, 519	membrane.....	532
flexural strength.....	90	metals .....	197
flow patterns .....	387	methanol.....	316
fluid flow .....	56	micellization.....	179
fluorescence spectroscopy .....	404	micronucleus (MN) test.....	14
fractionation.....	532	microwave irradiation .....	184
fructose .....	272	minerals .....	230
FT-IR .....	440	mixed convection .....	147
FT-Raman.....	440	modelling .....	509
Fukui function.....	440	modified anaerobic baffled reactor.....	102
furan-2(5 <i>H</i> )-ones .....	121	molecular docking.....	440
Fused Deposition Modelling (FDM) .....	29	moulding .....	90
gas holdup.....	208	moving magnetic field.....	147
gas-diffusion layer (GDL) .....	245	multi-component reaction .....	184
gas-liquid .....	554	multilayer coating.....	369
geotechnical engineering .....	56	MWCNT .....	297, 374
gold nanoparticles.....	297	nano catalyst.....	184
grafted amine .....	81	nanofiltration .....	509, 525, 532
graphene.....	310	nanoporous carbon .....	316
green solid-liquid extraction .....	509	NaY .....	81
H <sub>2</sub> and CO chemisorption.....	320	<i>neo</i> -clerodane diterpenes.....	250, 453
Hall and ion-slip currents.....	147	neurotensin .....	488
harvesting year.....	428	neutral bidentate ligand .....	68
Helix grooves.....	467	neutralization time.....	435
hemisynthetic derivatives .....	250	nickel(II) mixed ligand complex .....	68
highly loaded Co–Ni catalysts .....	342	NiO–ZrO <sub>2</sub> .....	362
HOMO-LUMO .....	440	NMR (nuclear magnetic resonance).....	129
human serum albumin.....	404	Ñora pepper.....	519
hydrogen.....	316	<i>nor</i> -clerodane diterpenes .....	453
hydrolytic stability .....	284	nosocomial .....	114
hydrosol .....	532	octahedral geometry complex .....	68
<i>Hypericum perforatum</i> L. ....	428	oil-water flow .....	387
hyperthermia.....	138	optimization.....	500
ICP-MS/MS .....	203	organic waste.....	214
immunogenicity .....	114	organoclay .....	297
impregnation method.....	300	osmotic dehydration .....	500
infrared spectra .....	47	Oum Er Rbia river .....	159
ion channel.....	549	oxidation.....	291
ion-selective electrode .....	448	oxidative imbalance.....	272
iron phosphate.....	493	ozone .....	291
isotherms.....	189	ozone decomposition.....	300
jet loop reactor .....	435	ozonolysis.....	291
jet loop sparged reactor.....	435	Parkinson disease .....	488
Joule dissipation .....	259	particle size distribution .....	554
<i>Juniperus</i> L. ....	543	petroleum .....	56
Krohnke reaction .....	18	phase behavior.....	549
Lamiaceae .....	250, 453	photocatalysis.....	310
lignocellulosic biomass.....	278	photocatalytic reactor .....	305
lipid membrane .....	549	photodissociation.....	142
liquid-liquid .....	554	photosensitizer.....	310
Loadings plot.....	159	p–i–n structure .....	5
long-term manned space missions .....	379	plant habitat.....	428
low-density polyethylene (LDPE) .....	90	plant organ.....	428
magnetic ionic liquid .....	335	plasma cloud.....	355
major elements.....	230	polyester .....	481

polyhydroquinoline.....	362	stack measurements.....	86
polylactic acid.....	29	stainless steel.....	86
polymer blends.....	129	steam explosion.....	278
polyphenols.....	509, 519	Stefanets Member.....	62
polyphosphoesters.....	129	straight-throat ejector.....	435
polysiloxane.....	481	structural.....	374
polyvinylidene fluoride (PVDF) membrane.....	519	submerged membrane bioreactor (SMBR).....	561
potassium peroxydisulfate.....	348	superficial velocity.....	387
potentiometry.....	448	sweet cherries.....	500
preparation.....	297	synthesis.....	481
pressure drop.....	387	Taguchi method.....	189
<i>Primula vulgaris</i> L.....	197	Taguchi-Grey methodology.....	305
principal component analysis.....	159	Taif rose.....	460
process integration.....	509	<i>Taxus</i> L.....	543
PVC membrane.....	448	telecentric principle.....	554
PVD method.....	369	temperature distribution.....	396
quantum efficiency.....	142	tensile strength.....	90
quenching.....	404	<i>Teucrium</i> .....	250
radiation.....	355	<i>Teucrium botrys</i> L.....	250
radical polymerization.....	348	<i>Teucrium chamaedris</i> L.....	250
rats.....	138	<i>Teucrium lamiifolium</i> D'Urv.....	250
recycled paper mill effluent.....	102	<i>Teucrium montanum</i> L.....	250
regioselectivity.....	335	<i>Teucrium polium</i> L.....	250
renewable fuels.....	342	<i>Teucrium scordium</i> L.....	250
residual water.....	532	<i>Teucrium scordium</i> subsp. <i>Scordioides</i> .....	453
resins.....	98	thermodynamic.....	189
response surface methodology.....	419, 500	thermogravimetric analysis.....	68
ring opening.....	335	thymol.....	419
<i>Rosa damascena</i> Mill.....	460	TiO <sub>2</sub> .....	310, 493
rotating.....	355	TiO <sub>2</sub> carrier.....	320
rotating rotor.....	467	total phenols.....	197
rotation.....	147	trace elements.....	230
RSM (response surface methodology).....	102	transparent soil.....	56
<i>Satureja montana</i> L.....	197	ultrasound-assisted extraction.....	419, 519
SBA-Pr-SO <sub>3</sub> H.....	184	ultraviolet-visible spectra.....	47
SCE (sister chromatide change) test.....	14	unnatural amino acids.....	284
Schiff base.....	9, 68	urinary bladder.....	272
Scores plot.....	159	UV-Vis spectrophotometry.....	203
Se.....	203	vigabatrin.....	138
selectivity.....	320	viscoelastic fluid.....	147
self-gravitating.....	355	viscous dissipation.....	259
sensory evaluation.....	460	volatile oil.....	428
serotonin syndrome.....	138	WADSIM_1 (Wide Application Dsmc SIMulation).....	467
shadowgraphic probe.....	554	walnut shell powder.....	90
shear stress.....	561	warfarin.....	404
Si(Li) detectors.....	5	water electrolysis.....	86
silver-catalyzed cycloisomerization.....	121	wear intensity.....	369
sodium valporate.....	179	West Forebalkan.....	62
sol-gel.....	362	wood combustion.....	396
solid-liquid.....	554	X-ray structure.....	9
solid-phase synthesis.....	284	<i>Zataria multiflora</i> Boiss.....	419
solution.....	291	zeolite NaX.....	189
spirooxindole.....	184	Zn serum levels.....	76
squaraine.....	310	ZnO.....	374
stability analysis.....	259		