INDEX

amphoteric, 11, 12 anionic, 11, 24, 38, 39 aqueous phase, 1, 7, 35, 37, 69 aromatic, 10	dielectric, 10, 11, 24 diffusion coefficient, 10 diluent, 10, 23 aliphatic, 10 aromatic, 10
carrier	
acidic, 10, 40	ELM. See Emulsion Liquid
basic, 10, 38	Membrane
neutral, 10	emulsifier, 5, 11, 13, 18
synergistic, 5, 8, 23, 34, 39,	emulsifying, 3, 64
73	emulsifying agent, 3
carrier-facilitated transport, 7	emulsion, 2
carrier-solute complex, 9	liquid membrane, 27, 63
cationic, 11	stability, 3, 24, 53, 68, 70, 74
	system, 18
demulsification	emulsion stability, 3
biological, 85	extract, 9
chemical, 84	extractant, 3
combination, 85	extraction
efficiency, 88, 89, 90, 92	agent, 27
factors, 88	efficiency, 25, 37, 39, 40, 63,
heating-ultrasonic, 85, 87	66, 67
membrane, 84	liquid-liquid, 8, 34, 69
physical, 83	performance, 9, 24, 36, 37,
process, 2, 13, 18, 63, 67, 81	65, 66, 68, 74
ultrasonic, 81, 83	procedure, 35, 52

process, 2, 5, 8, 12, 13, 18, 28, 33, 35, 43, 51, 66, 72, 75, 87 solvent, 8, 81	mass transfer, 3, 5, 18, 23, 27, 28, 57, 63, 66, 72, 74 metal-carrier complex, 10
stability, 68	nanoparticle, 5
synergistic, 33	nanoparticles, 25
., . 8	nonionic, 11
formulation, 8	
ELM, 8, 14, 19, 23, 28, 65,	organic phase, 3, 18, 35, 38,
70, 73	43, 66
synergistic, 34, 36, 40	organic solvent/diluent, 3
, 0 , , ,	osmotic
hydrophilic-lipophilic balance,	pressure, 4, 68, 71, 75
5, 12, 28	swelling, 4
hydrophobic, 11, 65	0
, 1	PELM. See Pickering Emulsion
ILs. See Ionic liquids	Liquid Membrane
ionic liquid, 5, 23	•
•	recovery, 1
kinetic, 8, 89	recovery process, 3
lipophilic, 5, 11, 12, 28, 65	selectivity-enhancing diluent, 10
liquid membrane, 1, 9, 23, 26,	separation
52, 55, 66, 81	efficiency, 26, 28, 74
bulk, 1	process, 17, 23, 25, 84
emulsion, 1, 17, 33, 49, 63,	water phase, 89
65, 81	solute, 1, 7
organic, 4, 5, 52, 87	solute distribution, 10
pickering emulsion, 26	solute-carrier, 7
supported, 1	solvent, 23
liquid-liquid extraction, 8	solvent extraction, 8
LLE. See liquid-liquid	stripping, 9
extraction	agent, 5, 9, 52
	metal, 10

organic compound, 10 perfomance, 9, 53, 57 reaction, 3, 9, 58, 69 synergistic, 50 surfactant, 3, 11 blended, 5, 25, 27, 64, 65 thermodynamic, 8

volatility, 11

wastewater, 1